E C O T O X

ECOTOXicology Database System

Code List

Prepared for:
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Office of Research and Development (ORD)
National Health and Environmental Effects Research Laboratory (NHEERL)
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TABLE OF CONTENTS

INTRODUCTION

This document contains all ECOTOX codes used in the storage and retrieval.

For brief information about data in each field, refer to the ECOTOX User Guide, Appendix E. For more detailed field definitions, refer to the coding guidelines for the aquatic database (AQUIRE Coding Guidelines) and the terrestrial database (TERRETOX Coding Guidelines) available in PDF format on the ECOTOX web site (under “What is” area).

In the ECOTOX browser reports, the fields lacking author reported data are left blank, but in the ASCII delimited file reports NR (not reported) or NA (not applicable) is used.

Asterisks are used for several reasons, depending upon the field. Please refer to the ECOTOX User Guide to accurately interpret the asterisk (*) usage.

For chemical collective index names and CAS numbers, refer to the Browse Chemical documentation. For species numbers, scientific names, Common names, refer to the Browse Species documentation.

CHEMICAL CODES

Chemical Grade

Code	Definition	Code	Definition
--	Unspecified	L	Laboratory grade
A	Analytical grade	MBG	Molecular biology grade
A OR R	Analytical or reagent grade	MD	Medical grade
A OR S	Analytical or spectrophotometric grade	ME	Monsanto electrical grade
A OR T	Analytical or technical grade	MK	Merck grade
A or GU	Analytical or guaranteed grade	MLT	Military grade
A or HPLC	Analytical or hplc grade	NAF	National formulary grade
AAPS	Atomic absorption primary standard	NC	Not coded
AASG	Atomic absorbtion spectrometry grade	NG	Nanograde
ACG	Agrochemical grade	NP	Normapur grade
ACS	American chemical society grade	NR	Not reported
AG	Agricultural grade	OP	Optima
AL	Analysis grade	PA	Proanalysis grade, pro analsi quality
AN	Analar grade	PAN	Pestanal grade
AN OR R	Analar or reagent grade	PFG	Purified grade
AR	A.R. grade (Analytical Reagent grade)	PG	Pure grade
ARST	Analytical reference standard	PH	Pharmaceutical grade
B	Biological grade	PR	Production grade
BC	Biochemika grade	PRA	Practical grade
C	Commercial grade	PRG	Pesticide residue grade
C OR AN	Commercial or analar grade	PRM	Premium grade
C or T	Commercial or technical grade	PS	Primary standard
CCG	Cell culture grade	PST	Pesticide grade

Code	Definition	Code	Definition
CG	Chemical grade	R	Reagent grade
CH	Chromatographic grade	R OR PRA	Reagent or practical grade
CL	Clinical grade	RE	Research grade
CT	Certified grade	RE or A	Research or analytical grade
DS	Dry standard grade	RFG	Reference grade
EL	Electrophoresis grade	RS	Residue grade
EM	Eastman grade	RST	Reference standard
ER	ExcelaR grade	S	Spectrophotometric grade
EX	Experimental grade	SC	Scintillation grade
EXT	Extra grade	SO	Solvent grade
F	Field grade	SPC	Spectrochemical grade
FCASS	Fisher certified atomic absorption standard	SPG	Special grade
FFL	Free flowing grade	ST	Standard
FG	Feed grade	STD	Standard solution for AA
FOG	Formulated grade	SYG	Synthesis grade
GC	Gas chromatography grade	T	Technical grade, technical product, technical formulation
GCR	Gas chromatograph standard	T OR P	Technical or purified grade
GR	Gr grade	T OR PU	Technical grade or pure
GU	Guaranteed grade	TA	Technical acid grade
GUR	Guaranteed reagant grade	TAR	Technical or analytical or reagent grade
HG	Histological grade	ULV	ULV grade
HPLC	High performance liquid chromatography gr	UP	Ultrapure grade
I	Industrial grade	USP	United States Pharmacopeia grade
		UV	UV grade

Chemical Formulation

Code	Definition	Code	Definition
--	Unspecified	NC	Not coded
AE	Acid equivalent	ND	Neutralized, desensitized
AI	Active ingredient	NF	Nonionized form
AQ	Aqueous solution	NR	Not reported
ARST	Analytical reference standard	NSD*	NSD-UNKNOWN FORM
AS	Aqueous suspension	OCO	Oil concentrate
ASG	Agricultural suspension	OD	Oil dispersion
ASL	Aerosol	ODA	Organic dispersal agent
BT	Bait	OS	Oil soluble
C	Commercial	PAR	Particulate
CES	Capsule suspension	PEL	Pellet
CG	Concentrate granules	PF	Purified
CL	Clinical	PO	Powder
CO	Concentrate	PRE	Prepared in lab
CP	Chemically pure	PU	Pure
CR	Controlled release	RC	Recrystallized
CRI	Chromatographically impure	RF	Registered formulation
CRP	Chromatographically pure	RST	Reference standard
CRY	Crystal	S	Solution
D	Dust	SC	Suspension concentrate
DC	Detached crystals	SD	Solid
DG	Dispersable granule (also known as "dry flowable")	SF	Sand formulated
DP	Dispersable powder	SG	Soluble granule
DSC	Dispersible concentrate	SO	Soluble concentrate
E	Emulsion	SP	Soluble powder
EC	Emulsifiable concentrate	SPCO	Spray concentrate
EF	Emulsifiable formulation	SPL	Spray liquid

Code	Definition	Code	Definition
EG	Emulsified granular	SPO	Spray powder
EN	Encapsulated	SRF	Slow release formulation
ES	Emulsifiable solution, agent	ST	Standard
FF	Flowable formulation	SUR*	SUR-UNKNOWN FORM
FFO	Field formulated	TB	Tablet
FG	Finely ground	TC	Technical product
FO	Formulated	UD	Unneutralized, desensitized
FS	Flowable concentrate for seed treatment	ULV	Ultra-low volume, also ultra-low volume concentrate or liquid
G	Granule, granular	V/V	Volume per volume
GL	Gel	W/V	Weight per volume
GS	Gaseous	W/W	Weight per weight
GU	Guaranteed	WG	Water dispersable granule
HG	Heavy granular	WHO	World health organization
LD	Liquid	WMC	Water miscible concentrate
LDCO	Liquid concentrate	WP	Wettable powder
LIB*	LIB-UNKNOWN FORM	WS	Water soluble
MO	Miscible oil	WSC	Water soluble concentrate
N	Nanograde	WSP	Water soluble powder
		WSS	Wettable solid

Chemical Radiolabel

Code	Definition	Code	Definition
--	Unspecified	Mn-54	Manganese
Ag-110	Silver	N-15	Nitrogen
Am-241	Americium	NC	Not Coded
As-73	Arsenic	NR	Not Reported
As-74	Arsenic	Na-22	Sodium
As-76	Arsenic	Ni-59	Nickel
B-10	Boron	Ni-62	Nickel
Ba-133	Barium	Ni-63	Nickel
Be-7	Beryllium	Np-235	Neptunium
C-12	Carbon	P-32	Phosphorus
C-13	Carbon	Pb-203	Lead
C-14	Carbon	Pb-206	Lead
Ca-45	Calcium	Pb-207	Lead
Cd-109	Cadmium	Pb-210	Lead
Cd-110	Cadmium	Po-208	Polonium
Cd-111	Cadmium	Po-210	Polonium
Cd-113	Cadmium	Pu-237	Plutonium
Cd-115	Cadmium	Pu-239	Plutonium
Ce-144	Cerium	Pu-242	Plutonium
Cf-252	Californium	Ra-226	Radium
Cl-36	Chlorine	Ru-106	Ruthenium
Cm-244	Curium	S-35	Sulfur
Co-57	Cobalt	Sb-125	Antinomy
Co-60	Cobalt	Se-75	Selenium
Co-64	Cobalt	Sn-113	Tin
Cr-51	Chromium	Sr-85	Strontium
Cs-134	Cesium	Sr-90	Strontium
Cs-137	Cesium	Tc-95	Techninium
Cu-63	Copper	Tc-99	Technicium

Code	Definition	Code	Definition
Cu-64	Copper	Te-128	Tellurium
Cu-65	Copper	Th 238	Thorium
Eu-152	Europium	Th-232	Thorium
F-18	Fluorine	Tl-115	Thallium
Fe-59	Iron	U-232	Uranium
H-2	Hydrogen (Deuterium)	U-235	Uranium
H-3	Hydrogen (Tritium)	U-238	Uranium
Hg-197	Mercury	V-48	Vanadium
Hg-202	Mercury	V-49	Vanadium
Hg-203	Mercury	YES	Unknown radiolabel
I-125	Iodine	Zn-64	Zinc
I-131	Iodine	Zn-65	Zinc
		Zn-68	Zinc

SPECIES CODES

Organism Source

Code	Definition	Code	Definition
--	Unspecified	GOV	Government agency
CBC	Captive breeding colony	LAB	Laboratory
COM	Commercial	MLT	Multiple sources
DOM	Domestic	NC	Not Coded
GAM	Game farm	NR	Not reported
GO	Government agency	WLD	Wild

Lifestage

Code	Definition	Code	Definition
--	Unspecified	NY	Nymph(s)
AD	Adult(s)	OO	Oocyte, ova
AL	Alevin	PA	Parr
BL	Blastula	PB	Mature (post-bloom stage) organism(s)
BS	Bud blast stage	PC	Pre-hatch
CC	Cocoon(s)	PD	Pre-molt
CO	Copepodid	PE	Post-emergence
CP	Copepodite	PG	Post-spawning
CS	Cleavage stage	PH	Mature (pit-hardening stage) organism(s)
CY	Cyst	PHT	Post-hatch
EG	Egg(s)	PI	Post-molt
EL	Elver	PJ	Pre-, sub-, semi- or near adult
EM	Embryo(s)	PK	Post-smolt
EX	Exponential growth phase (log)	PN	Post-nauplius
EY	Eyed egg or stage, eyed embryo	PO	Pollen, pollen grain
F0	F0 generation	PP	Postpartum

Code	Definition	Code	Definition
F1	F1 generation	PPU	Prepupal
F11	F11 generation	PQ	Pre-larva
F2	F2 generation	PS	Pre-smolt
F6	F6 generation	PT	Protolarvae
FB	Mature (full-bloom stage) organism(s)	PU	Pupa(e)
FG	Female gametophyte(s)	PV	Post-larva
FI	Fingerling	PW	Pre-spawning
FO	Flower opening	PY	Post-embryo
FT	Froglet	PZ	Protozoea
FY	Fry	RC	Rooted cuttings
GA	Gastrula	RH	Rhizome
GE	Gestation	RP	Reproductively mature organism(s)
GL	Glochidia	RST	Rootstock
GM	Gamete	SA	Subadult(s)
GP	Lag growth phase	SB	Shoot
GPS	Grain or seed formation stage	SC	Yolk sac larvae, sac larvae
GS	Germinated seed(s)	SD	Seed(s)
IB	Incipient bud	SE	Scape elongation
IG	Imago	SF	Sac fry, yolk sac fry
IM	Immature organism(s)	SG	Mature (side-green stage) organism(s)
IN	Instar	SI	Sexually immature organism(s)
IT	Intermolt	SL	Seedling(s)
JV	Juvenile(s)	SM	Sexually mature organism(s)
LC	Lactational	SMT	Smolt
LE	Egg laying	SN	Sapling(s)
LO	Lobes	SO	Sporeling
LP	Larva-pupa	SP	Sperm
LR	Prolarva	SR	Spore
LV	Larva(e)	ST	Spat

Code	Definition	Code	Definition
MA	Mature organism(s)	SU	Swim-up
MD	Mature (dormant) organism(s)	SW	Spawning
ME	Megalopa	SY	Stationary growth phase
MG	Male gametophyte(s)	TA	Tadpole
ML	Morula	TC	Tissue culture callus
MN	Mid-neurula	TLS	Tiller stage
MO	Molt	TU	Tuber
MT	Mature organism(s)	TZ	Trophozoite
MX	Organisms at different lifestages	UY	Underyearling
MY	Mysis	VE	Veliger
NB	Newborn	VG	Vegetatively mature organism(s)
NC	Not coded	VI	Virgin organism(s)
ND	Naiad	YA	Young adult
NE	Neonate	YE	Yearling
NH	New, newly or recent hatch	YO	Young organism(s)
NL	Neurala	YY	Young of year
NR	Not reported	ZO	Zoea
NU	Nauplii	ZS	Zygospore
		ZY	Zygote

Organism Age Duration

Code	Definition	Code	Definition
--	Unspecified	hpf	Hours post fertilization
-X	Pretreatment, time unknown	hph	Hours post hatch
BLM	Bloom stage	hpp	Hours post planting/sowing
LSI	Larval stage index	hpr	Hours post release
MULT	Multiple durations (for terrestrial rollup)	ht	Until hatch
NA	Not applicable	hv	Harvest
NC	Not coded	i2	Intermolt to 2nd molt
NR	Not reported	ins	Instar
ZGS	Zadoks growth stage	inst	Instantaneous
abs	Until abscission	it	Intermolt to molt
ac	Age class	kh	Knee-high stage
alv	Alevin	lf	Lifetime;no associated numeric value
ant	Until anthesis	lfd	Leaf drop
b0.25	0.25 bloom stage	lgp	To lag phase
brd	Brood or litter	lhv15-20	Leaf harvest, 15-20 cm
brs	Breeding season	lhv20-25	Leaf harvest, 20-25 cm
bt	Boot stage	log	To log phase
cd	Colony diameter	ls	Leaf stage
cfs	Commercial flowering stage	ls4-6	4-6 leaf stage
clv	Until cleavage	ls6	Six leaf stage
crs	Crab stage	ls9-10	9-10 leaf stage
cs	Cell stage	lva	Larva to adult
d	Day(s)	lvp	Larva to pupa
dapu	Days after pupation	lvsa	Larva to subadult
dbh	Days pre-hatch	ma	Maturity
dd	Degree days	mi	Minute(s)
dge	Days gestation	mmph	Until metamorphosis
dh	Degree hours	mo	Month(s)

Code	Definition	Code	Definition
dpe	Days post-emergence	mope	Months post-emergence
dpel	Days post egg laying	mopf	Months post-fertilization
dpf	Days post fertilization	moph	Months post-hatch
dpfg	Days post fledging	mopm	Months post-metamorphosis
dpfl	Days post flowering	mopres	Months pre-smolt
dpgm	Days post germination	mopswm	Months post swim-up
dph	Days post-hatch	mpf	Minutes post-fertilization
dphv	Days post harvest	mpgm	Months post-germination
dpm	Days post-moult	mph	Minutes post-hatch
dpmm	Days post metamorphosis	mpp	Months post planting/sowing
dpn	Days post-natal	myp	Mysis - post-larvae
dpo	Days post-oviposition	nf	Nieuwkoop-faber-stage
dpp	Days post planting/sowing	pa	Pupa to adult
dpr	Days post-release	pan	Panicle formation stage
dpref	Days pre-fertilization	pci	Phytochron index
dps	Days post-spawn	pd	1st pod set
dpu	Days post-swim up	pgm	Post germination
dpw	Days post-swimming	pm	Post molt
dpys	Days post yolk sac absorption	pr	Priming
ea	To earing or heading	pro	Propagation stage
eb	Early bloom stage	rhv3	Root harvest, 3 grams
ej	Egg to juvenile	s	Second(s)
el	Egg(s) laid	slk	Silk stage
em	Emergence	sms	Somite stage
ep	Egg to pupation	so	Shooting stage
epa	Egg to pre-adult	spf	Seconds post-fertilization
eslk	Early silk stage	spref	Seconds pre-fertilization
eso	End of shooting stage	ss	Squaring stage
ey	Eyed stage	sss	Seed set stage
f5	50% flowering	sst	Substage

Code	Definition	Code	Definition
fb	Full bloom stage	stg	Stage
fd	Frond	su	Summer
fi	Floral initiation	swm	Swim-up
fl	Flower stage	tls	Tiller stage
flg	Fledging	tr	1st trifoliate leaf
fr	Fruit stage	ts	Time to tassle
frt	To fertilization	ubi	Until birth
fry	Fry	vg	Vegatative stage
fs	Flowering stage	wbh	Weeks pre-hatch
gds	Gallien and durocher stage	wk	Week(s)
ge	Generation	wkpm	Weeks post metamorphosis
ges	Gestation	wkprf	Weeks pre-fertilization
gm	Germination	wpe	Weeks post-emergence
go	Gosner stage	wph	Weeks post-hatch
gs	Growing season	wphv	Weeks pre harvest
gts	Gastrula stage	wpp	Weeks post planting/sowing
h	Hour(s)	wps	Weeks post-swim-up
hbf	Hours pre-fertilization	yc	Year class
hbh	Hours pre-hatch	yph	Years post-hatch
hpe	Hours post-emergence	yr	Year(s)
hpel	Hours post egg laying	zm	Zoeae - megalop
		zmy	Zoeae - mysis

TEST CONDITION CODES

Aquatic Media Type

Code	Definition	Code	Definition
--	Unspecified	NC	Not Coded
FW	Fresh Water	NR	Not Reported
		SW	Salt Water

Terrestrial Media Type

Code	Definition	Code	Definition
--	Unspecified	MIN	Mineral soil
AGR	Agar	MIX	Media mixture (with comment)
AQU	Aqueous(hydroponic)	NAT	Natural soil
ART	Artificial soil	NC	Not coded
CUL	Culture	NONE	No substrate
FAB	Fabric or similar material	NR	Not reported
FLT	Filter paper	POP	Plaster of paris
HUM	Humus	SED	Sediment
HYP	Hydroponic	SLG	Sludge
LIT	Litter	UKN	Unknown media
MAN	Manure	UKS	Unknown soil

Test Location

Code	Definition	Code	Definition
--	Unspecified	FIELDU	Field Undeterminable
FIELDA	Field Artificial	LAB	Lab
FIELDN	Field Natural	NR	Not Reported

Exposure Duration Units

Code	Definition	Code	Definition
--	Unspecified	hpf	Hours post fertilization
-X	Pretreatment, time unknown	hph	Hours post hatch
BLM	Bloom stage	hpp	Hours post planting/sowing
LSI	Larval stage index	hpr	Hours post release
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hpe	Hours post-emergence	yr	Year(s)
hpel	Hours post egg laying	zm	Zoeae - megalop
		zmy	Zoeae - mysis

Exposure Type

Aquatic Exposure Type

Code	Definition	Code	Definition
AD*	AD* - PTOX Unspecified	IP	Intraperitoneal
AQUA - NR	Aquatic - not reported	IQ	Intraduodenal
B	Tidal	IR	Intraprostomial
C	Topical exposure	IS	Intrasegmentally
CH	Choice	IU	Intraaccumbens
CM*	CM* - PTOX Unspecified	IV	Intravenous
D	Diet or oral	IW	Intraesophageal
D*	D* - PTOX Unspecified	IY	Intracardiac
DM	Dermal	IZ	Intra-spinal cord
DO*	DO* - PTOX Unspecified	L	Leaching
DR	Drinking water	LC	Lactation (exposed via mothers milk)
DT	Diet, unspecified	LF*	LF* - PTOX Unspecified
E	Lentic	MM	Immersion
F	Flow-through	MU	Multiple routes between application groups
FC	Filmcoating	NC	Not coded
FD	Food	NR	Not reported
FV*	FV* - PTOX Unspecified	O	Lotic
GE	Gestational	OC	Ocular
GM*	GM* - PTOX Unspecified	OP	Osmotic pump
GS*	GS* - PTOX Unspecified	OR	Oral via capsule
GV	Gavage	P	Pulse
HP*	HP* - PTOX Unspecified	PC	Percutaneous
I	Injection	PS*	PS* - PTOX Unspecified
IA	Intra-arterial	PU*	PU* - PTOX Unspecified

Code	Definition	Code	Definition
IAC	Intra-abdominal cavity	R	Renewal
IB	Albumin injection	RA	RA - unknown
IC	Air sac injection	RA*	RA* - PTOX Unspecified
ICL	Intra-coelom	RT*	RT* - PTOX Unspecified
ID	Intradermal	S	Static
IE	Intratesticular	SA	Surface area dose
IF	Intramedial forebrain bundle	SC	Subcutaneous
IG	Intragastrical	SD	Subdermal
IH	Intrahemocoel	SH	Eggshell
II	Intrastriatal	SL*	SL* - PTOX Unspecified
IJ	Injection, unspecified	SO*	SO* - PTOX Unspecified
IK	Intracranial	SP*	SP* - PTOX Unspecified
IL	Intra placental	SR*	SR* - PTOX Unspecified
ILP	Intralymphatic	ST*	ST* - PTOX Unspecified
IM	Intramuscular	TP	Topical, general
IN*	IN* - PTOX Unspecified	TU*	TU* - PTOX Unspecified
IO	Intra-amniotic	YK	Yolk

Terrestrial Exposure Type

Code	Definition	Code	Definition
AD*	AD* - PTOX Unspecified	IM	Intramuscular
AE	Aerial	IN	In situ
AG	Aerial granular	IN*	IN* - PTOX Unspecified
AS	Aerial spray	IO	Intra-amniotic
C	Topical exposure	IP	Intraperitoneal
CH	Choice	IQ	Intraduodenal
CM	Culture medium	IR	Intraprostomial
CM*	CM* - PTOX Unspecified	IS	Intrasegmentally
D	Diet or oral	IU	Intraaccumbens
D*	D* - PTOX Unspecified	IV	Intravenous
DA	Direct application	IW	Intraesophageal
DM	Dermal	IY	Intracardiac
DO*	DO* - PTOX Unspecified	IZ	Intra-spinal cord
DR	Drinking water	LC	Lactation (exposed via mothers milk)
DT	Diet, unspecified	LF*	LF* - PTOX Unspecified
DU	Dusted	MI	Misted
DW	Dropwise	MM	Immersion
EN	Environmental, unspecified	MT	Multiple routes within environmental exposures
FC	Filmcoating	MU	Multiple routes between application groups
FD	Food	NC	Not coded
FS	Foliar spray	NR	Not reported
FU	Fumigation	OC	Ocular
FV*	FV* - PTOX Unspecified	OP	Osmotic pump
GE	Gestational	OR	Oral via capsule
GG	Ground granular	PC	Percutaneous
GM	Growth medium	PR	Present in soil
GM*	GM* - PTOX Unspecified	PS*	PS* - PTOX Unspecified

Code	Definition	Code	Definition
GS	Ground spray	PT	Painted
GS*	GS* - PTOX Unspecified	PU	Pump
GV	Gavage	PU*	PU* - PTOX Unspecified
HP	Hydroponic	RA	RA - unknown
HP*	HP* - PTOX Unspecified	RA*	RA* - PTOX Unspecified
HS	Hand spray	RB	Imbedded in rubber
I	Injection	RT*	RT* - PTOX Unspecified
IA	Intra-arterial	SA	Surface area dose
IAC	Intra-abdominal cavity	SC	Subcutaneous
IB	Albumin injection	SD	Subdermal
IC	Air sac injection	SH	Eggshell
ICL	Intra-coelom	SL*	SL* - PTOX Unspecified
ID	Intradermal	SO	Dipped or soaked
IE	Intratesticular	SO*	SO* - PTOX Unspecified
IF	Intramedial forebrain bundle	SP	Spray
IG	Intragastrical	SP*	SP* - PTOX Unspecified
IH	Intrahemocoel	SR*	SR* - PTOX Unspecified
II	Intrastriatal	SS	Soil slurry
IJ	Injection, unspecified	ST*	ST* - PTOX Unspecified
IK	Intracranial	TP	Topical, general
IL	Intra placental	TU*	TU* - PTOX Unspecified
ILP	Intralymphatic	WA	Watered
		YK	Yolk

Application Frequency

Code	Definition	Code	Definition
--	Unspecified	X per D, 10 X	X times per day, 10 times
2 DLY for X D	2 times daily for x days	X per D, 5 D/WK	X times per day, 5 days per week

Code	Definition	Code	Definition
ADL	Ad libitum	X per D, 6 D/WK	X times per day, 6 days per week
CON	Continual; non-pulsed	X per FI	Times per floral initiation
D/WK, 10-13 WK	X times per week for 10 to 13 weeks	X per H	X times per hour
DLY	Daily; dosing regime not specified	X per MO	X times per month
DLY for 2 H	Daily for 2 hours	X per WK	X times per week
DLY for 5 D	Daily for 5 days	X per WK, EOW	X times per week, every other week
DLY for X D	Daily for x days	X per Y	X times per year
E X D	Every x days	X per wk/10 wk	X times per week per 10 weeks
E X D for 60 D	Every x days for 60 days	X, 1/11D	X times, 1 time per 11 days
E X H	Every x hours	X, 1/2 to 4 WK	X times, 1 time per 2 to 4 weeks
E X H for 20 D	Every x hours for 20 days	X, 1/3or4 D	X times, 1 time per 3 or 4 days
E X MI	Every x minutes	X, 1/3to 5 D	X times, 1 time per 3 to 5 days
E X MO	Every x months	X, 1X per 3 WK	X times, 1 time per 3 week
E X WK	Every x weeks	X, 1X/20D	X times, 1 time per 20 days
EOD	Every other day	X, 1X/2D	X times, 1 time per 2 days
EXD for 10 D	Every x days for 10 days	X, 1X/2WK	X times, 1 time per 2 weeks
G per D	Grams per day	X, 1X/4 WK	X times, 1 time per 4 weeks
H	Hour	X, 1X/D	X times, 1 time per day
H/D for 8 D	X hours per day for 8 days	X, 1X/Y	X times, 1 time per year
HED	X hours every day	X, 1X/wk	X times, 1 time per week
NC	Not coded	X, 2 H apt	X times, 2 hours apart
NR	Not reported	X, 2X in 14 H	X times, 2 times in 14 hours
RES	Restricted diet	X, 2X per D	X times, 2 times per day
STG	Stage	X, 2X per WK	X times, 2 times per week

Code	Definition	Code	Definition
WK, 1X/wk	Weeks, 1 time per week	X, 4X per D	X times, 4 times per day
WKY	Weekly	X, 7 D apt	X times, 7 days apart
X	Dosed x time(s) per study period	X, 96 H apart	X times, 96 hours apart
X D, 1 X per H	X days, one time per hour	X,1 X E 15 D	X times, 1 time every 15 days
X E 3.3-5 D	X times every 3.3 to 5 days	X,1 X per 15 D	X times, 1 time per 15 days
X E 7-15 D	X times every 7 to 15 days	X,10 D apt	X times 10 days apart
X E10D	X times every 10 days	X,1X per 2to3D	X times, 1 time per 2 to 3 days
X E2D	X times every 2 days	X,1X per 3 D	X times, 1 time per 3 days
X E7D	X times every 7 days	X,1X per 4 D	X times, 1 time per 4 days
X H E10D	X hours every 10 days	X,1Xper9-13 D	X times, 1 time per 9-13 days
X H E12H	X hours every 12 hours	X,20 D apt	X times 20 days apart
X H E3D	X hours every 3 days	X,24 H per 14 D	X times, 24 hours per 14 days
X H E5D	X hours every 5 days	X,48H apt E14D	X times, 48 hours apart every 14 days
X H E7D	X hours every 7 days	X,5X per WK	X times, 5 times per week
X H EOD	X hours every other day	X/D for 6 D	X times per day for 6 days
X H WKY	X hours weekly	X/WK for 3 WK	X times per week for 3 weeks
X H per D	X hours per day	X/WK for 4 WK	X times per week for 4 weeks
X H, 2X/WK	X hours, 2 times per week	X/WK for 5 WK	X times per week for 5 weeks
X H, 4X/WK	X hours, 4 times per week	X/WK for 90 d	X times per week for 90 days
X H, 5/WK	X hours, 5 times per week	X/Y for 3 Y	X times per year for 3 years
X MI	X minutes	XH/D,5D/WKfor3W	X hours per day, 5 days a week for 3 weeks
X MI E8H	X minutes every 8 hours	Xfor0.5H,48H apt	X times for 0.5 hours, 48 hours apart
X MI EOD	X minutes every other day	Xfor1.5H,24Hapt	X times for 1.5 hours, 24 hours apart
X MI per D	X minutes per day	Xfor10H,5D apt	X times for 10 hours, 5 days apart

Code	Definition	Code	Definition
X MI, 1X/WK	X minutes, 1 time per week	Xfor12H,12H apt	X times for 12 hours, 12 hours apart
X MI, 2X/WK	X minutes, 2 times per week	Xfor12H,14D apt	X times for 12 hours, 14 days apart
X MI, 3D	X minutes per day, for 3 days	Xfor12H,24H apt	X times for 12 hours, 24 hours apart
X MI, 3X/WK	X minutes, 3 times per week	Xfor12H,3D apt	X times for 12 hours, 3 days apart
X MI, 4D	X minutes per day for 4 days	Xfor12H,48H apt	X times for 12 hours, 48 hours apart
X MI, 5X/WK	X minutes, 5 times per week	Xfor12H,4D apt	X times for 12 hours, 4 days apart
X S, 1	X seconds, 1 time	Xfor12H,6D apt	X times for 12 hours, 6 days apart
X for 1 H	X times for 1 hour	Xfor12H,7D apt	X times for 12 hours, 7 days apart
X for 1 MI	X times for 1 minute	Xfor12H,8D apt	X times for 12 hours, 8 days apart
X for 10 MI	X times for 10 minutes	Xfor14D,14D apt	X times for 14 days, 14 days apart
X for 12 D	X times for 12 days	Xfor1H,48H apt	X times for 1 hour, 48 hours apart
X for 12 H	X times for 12 hours	Xfor2.5H,8H apt	X times for 2.5 hours, 8 hours apart
X for 14 H	X times for 14 hours	Xfor24H,11D apt	X times for 24 hours, 11 days apart
X for 15 MI	X times for 15 minutes	Xfor24H,12H apt	X times for 24 hours, 12 hours apart
X for 18 H	X times for 18 hours	Xfor24H,24H apt	X times for 24 hours, 24 hours apart
X for 2 D	X times for 2 days	Xfor24H,48H apt	X times for 24 hours, 48 hours apart
X for 2 H	X times for 2 hours	Xfor24H,4D apt	X times for 24 hours, 4 days apart
X for 20 MI	X times for 20 minutes	Xfor24H,5D apt	X times for 24 hours, 5 days apart
X for 24 H	X times for 24 hours	Xfor24H,6D apt	X times for 24 hours, 6 days apart

Code	Definition	Code	Definition
X for 3 D	X times for 3 days	Xfor24H,72H apt	X times for 24 hours, 72 hours apart
X for 3 H	X times for 3 hours	Xfor2H,24H apt	X times for 2 hours, 24 hours apart
X for 3.5 H	X times for 3.5 hours	Xfor2H,48H apt	X times for 2 hours, 48 hours apart
X for 30 MI	X times for 30 minutes	Xfor3H, 6D apt	X times for 3 hours, 6 days apart
X for 4 H	X times for 4 hours	Xfor3H,15D apt	X times for 3 hours, 15 days apart
X for 48 H	X times for 48 hours	Xfor3H,24H apt	X times for 3 hours, 24 hours apart
X for 5 D	X times for 5 days	Xfor3H,48H apt	X times for 3 hours, 48 hours apart
X for 5 D, 5 D apt	X times for 5 days, 5 days apart	Xfor3H,6H apt	X times for 3 hours, 6 hours apart
X for 5 H	X times for 5 hours	Xfor3H,96H apt	X times for 3 hours, 96 hours apart
X for 5 MI	X times for 5 minutes	Xfor4H,12H apt	X times for 4 hours, 12 hours apart
X for 6 H	X times for 6 hours	Xfor4H,24H apt	X times for 4 hours, 24 hours apart
X for 60 MI	X times for 60 minutes	Xfor4H,2D apt	X times for 4 hours, 2 days apart
X for 7 D	X time for 7 days	Xfor4H,48H apt	X times for 4 hours, 48 hours apart
X for 8 D	X times for 8 days	Xfor4H,4D apt	X times for 4 hours, 4 days apart
X for 84 H	X times for 84 hours	Xfor4H,7D apt	X times for 4 hours, 7 days apart
X for 90 MI	X times for 90 minutes	Xfor4H,8H apt	X times for 4 hours, 8 hours apart
X for 96 H	X times for 96 hours	Xfor5H,3or5Dapt	X times for 5 hours, 3 or 5 days apart
X in 12 H	X times in 12 hours	Xfor6H,12H apt	X times for 6 hours, 12 hours apart
X in 14 D	X times in 14 days	Xfor6H,14D apt	X times for 6 hours, 14 days apart

Code	Definition	Code	Definition
X in 24-72 H	X times in 24 to 72 hours	Xfor6H,24H apt	X times for 6 hours, 24 hours apart
X in 48 H	X times in 48 hours	Xfor6H,3D apt	X times for 6 hours, 3 days apart
X per 12 D	X times per 12 days	Xfor6H,48H apt	X times for 6 hours, 48 hours apart
X per 14 D	X times per 14 days	Xfor6H,6D apt	X times for 6 hours, 6 days apart
X per 2 wk	X times per 2 weeks	Xfor6H,72H apt	X times for 6 hours, 72 hours apart
X per 24 H	X times per 24 hours	Xfor6H,7D apt	X times for 6 hours, 7 days apart
X per 2D	X times per 2 days	Xfor6H,96H apt	X times for 6 hours, 96 hours apart
X per 3 D	X times per 3 days	Xfor90MI,2H apt	X times for 90 minutes, 2 hours apart
X per 4D	X times per 4 days	XperD for 3 D	X times per day for 3 days
X per 5 D	X times per 5 days	XperD for 30 D	X times per day for 30 days
X per 6 H	X times per 6 hours	XperD for 7 D	X times per day for 7 days
X per 6 WK	X times per 6 weeks	XperD for 90 D	X times per day for 90 days
X per D	X times per day	XperD, 1WK	X times per day for one week
X per D for12WK	X times per day for 12 weeks	XperD,10X	X times per day, 10 times
X per D, 1 WK	X times per day, 1 week	XperWK for 6 WK	X times per week for 6 weeks

Control Type

Code	Definition	Code	Definition
B	Baseline or background control	NA	Unspecified
C	Concurrent control	NR	Not reported
D	Exposure Dose level identifier	O	Control outside of primary exposure system
E	Endpoint link identifier	OK	Used to group mults from Reference Manager conversion

Code	Definition	Code	Definition
H	Historical control	P	Positive controls were used
I	Insufficient	S	Satisfactory
K	Control data is presented but without accompanying methodology	U	Unsatisfactory
M	Multiple types of controls were reported by the author	V	Carrier or solvent
		Z	No controls were used in the study

Test Type

Code	Definition	Code	Definition
--	Unspecified	FLC	Full Life Cycle
ACTELS	Acute Early Life Stage	GEN	Generational
ACUTE	Acute	NC	Not Coded
CHRELS	Chronic Early Life Stage	NR	Not Reported
CHRONIC	Chronic	PLC	Partial Life Cycle
ELS	Early Life Stage	SBACUTE	Subacute
		SBCHRON	Subchronic

Test Method

Code	Definition	Code	Definition
--	Unspecified	IRSA	Water Research Institute
ABNT	Brazilian National Standards Organization	ISEPOE	ISO, USEPA, and OECD methods
AFNOR	French Association for Standardization	ISO	International Standard Organisation
AFNORISO	AFNOR and ISO methods	ISOOECD	ISO and OECD methods
AFNOROECD	AFNOR and OECD methods	ISOOECDCCME	ISO, OECD, and CCME methods
ASISOEEP	ASTM, ISO, OECD, and USEPA methods	ISTA	International Seed Testing Association
ASTM	American Society for Testing and Materials	MFE	New Zealand Minister for the Environment
ASTMOECD	ASTM and OECD methods	NC	Not coded
CCME	Canadian Council of Ministers of the Environment	NR	Not reported
CEN	European Committee for Standardization	OECD	Organization for Economic Cooperation and Development
CETESB	Technology Centre for Environment Conservation	OECDMFE	OECD and MFE methods
ECAN	Environment Canada	OEEPAS	OECD, USEPA and ASTM methods
EEC	European Economic Community	OPPTS	Office of Prevention, Pesticides and Toxic Substances Harmonized Test Guidelines
EPAASTM	USEPA and ASTM methods	SS	Swedish Standard
EPAECCE	USEPA, ECAN, and CETESB methods	STDASTM	STDMETH and ASTM methods
EPAOECD	USEPA and OECD methods	STDASTUS	STDMETH, ASTM, and USEPA methods
EPASTD	USEPA and STDMETH methods	STDMETH	Standard Methods for the Examination of Water and Wastewater
EPPO	European and Mediterranean Plant Protection Organization	STDOECD	STDMETH and OECD methods

Code	Definition	Code	Definition
FAO	Food and Agriculture Organization of the United Nations	STOEGL	STDMETH, OECD, and GLP methods
GLP	Good Laboratory Practices	TEPA	Taiwan Environmental Protection Agency
GLPUK	Department of Health's United Kingdom Compliance Programme good laboratory practice	TEPAOECD	TEPA and OECD methods
IOBC	International Organisation for Biological Control of noxious animals and plants	UNEP	United Nations Environment Programme
IRAC	Insecticide Resistance Action Committee	USEPA	United States Environmental Protection Agency
		WHO	World Health Organization

EXPOSURE CODES

Dose Type

Code	Definition	Code	Definition
C	Concurrent Control	P	Positive Control
D	Dose	R	Range of doses
E	Endpoint only (no dose values required)	V	Solvent control

Concentration Type

Code	Definition	Code	Definition
--	Unspecified	NA	Not Applicable
A	Active Ingredient	NC	Not Coded
D	Dissolved	NR	Not Reported
F	Formulation	T	Total
L	Labile (free metal ion)	U	Unionized

Gender

Code	Definition	Code	Definition
--	Unspecified	M	Male
B	Both	NC	Not coded
F	Female	NR	Not reported

Dose or Result Statistical Method

Code	Definition
--	Unspecified
CI	Confidence Interval
CL	Confidence Limit
CV	Confidence Value

Code	Definition
FL	Fuducial Limit
NR	Not Reported
R	Range
SD	Standard Deviation
SE	Standard Error

Chemical Analysis Method

Code	Definition	Code	Definition
--	Unspecified	NC	Not coded
C	Calculated	NR	Not reported
M	Measured	U	Unmeasured
MULT	Multiple methods (for terrestrial rollup)	X	Unmeasured values (some measured values reported in article)
		Z	Chemical analysis reported

Ionic Fraction

Code	Definition	Code	Definition
--	Unspecified	Mn	Manganese
24D	2,4-Dichlorophenoxyacetic	MnO4	Manganate
AE	Acid equivalent	Mo	Molybdenum
Ac	Actinium	MoO4	Molybdate
Ag	Silver	N	Nitrogen
Al	Aluminum	N3	Azide
Am	Americium	NC	Not Coded
Ar	Argon	NH3	Ammonia (un-ionized)
As	Arsenic	NH4	Ammonium (total)
As2O3	Arsenic trioxide	NO2	Nitrite
AsO2	Arsenite	NO2N	Ammonium nitrite
AsO4	Arsenate	NO3-	Nitrate
At	Astatine	NO3N	Ammonium nitrate
Au	Gold	NR	Not Reported
B	Boron	Na	Sodium
B2O3	Borate	NaN3	Sodium azide
B4O7	Borate	Nb	Niobium
BO3	Borate	Nd	Neodymium
Ba	Barium	Ne	Neon
Be	Beryllium	Ni	Nickel
Bi	Bismuth	No	Nobelium
Bk	Berkelium	Np	Neptunium
Br	Bromine	O	Oxygen
Br2	Bromine	OH	Hydroxide
BrO3	Bromate	Os	Osmium
C	Carbon	P	Phosphorus
CN	Cyanide	P2O3	Phosphorus oxide
CNO	Cyanate	P2O5	Phosphate
CO3	Carbonate	PCP	Pentachlorophenate

Code	Definition	Code	Definition
CPOX	Chlorine produced oxidant	PHC	Petroleum hydrocarbon
Ca	Calcium	PO4	Phosphate
Cd	Cadmium	PPHN	Phosphine
Ce	Cerium	PQT	Paraquat
Cf	Californium	Pa	Protactinium
Cl	Chlorine	Pb	Lead
Cl2	Chlorine	Pb3E	Triethyl lead
ClO-	Hypochlorite	Pd	Palladium
ClO2	Chlorite	Pm	Promethium
ClO3	Chlorate	Po	Polonium
ClO4	Perchlorate	Pr	Praseodymium
Cm	Curium	Pt	Platinum
Co	Cobalt	Pu	Plutonium
Cr	Chromium	Ra	Radium
Cr2O7	Dichromate	Rb	Rubidium
Cr3	Chromium (+3)	Re	Rhenium
CrO3	Chromium trioxide	Rh	Rhodium
CrO4	Chromate	Rn	Radon
CrVI	Chromium (+6)	Ru	Ruthenium
Cs	Cesium	S	Sulfur
Cu	Copper	S2O3	Thiosulfate
D	Deuterium	SCN	Thiocyanate
DETC	Diethyldithiocarbamate	SO2	Sulfur dioxide
DQT	Diquat	SO3	Sulfite
Dy	Dysprosium	SO4	Sulfate
Er	Erbium	Sb	Antimony
Es	Einsteinium	SbO4	Antimonate
Eu	Europium	Sc	Scandium
F	Fluorine	Se	Selenium
Fe	Iron	SeO3	Selenite
Fm	Fermium	SeO4	Selenate

Code	Definition	Code	Definition
Fr	Francium	Si	Silicon
Ga	Gallium	SiO2	Silicate
Gd	Gadolinium	Sm	Samarium
Ge	Germanium	Sn	Tin
H	Hydrogen	Sr	Strontium
H2PO4	Dihydrogen phosphate	TBT	Tributyltin
H2S	Hydrogen sulfide	TBTO	Tributyltin oxide
HCN	Hydrogen cyanide	TPT	Triphenyltin
HCO3	Bicarbonate	TRBr	Total Residual Bromine
HPO4	Hydrogen phosphate	TRCl	Total Residual Chlorine
HS-	Hydrogen sulfide ion	TROX	Total residual oxidant
HSO3	Bisulfite	Ta	Tantalum
He	Helium	Tb	Terbium
Hf	Hafnium	Tc	Technetium
Hg	Mercury	TcO4	Pertechnetate
Ho	Holmium	Te	Tellurium
I	Iodine	Th	Thorium
I2	Iodine	Ti	Titanium
IO3	Iodate	Tl	Thallium
In	Indium	Tm	Thulium
Ir	Iridium	U	Uranium
K	Potassium	UO2	Uranium oxide (Uraninite)
Kr	Krypton	V	Vanadium
La	Lanthanum	VO3	Vanadate
Li	Lithium	W	Wolfram
Lr	Lawrencium	WO4	Tungstate
Lu	Lutetium	Xe	Xenon
Md	Mendelevium	Y	Yttrium
MeHg	Methylmercury	Yb	Ytterbium
Mg	Magnesium	Zn	Zinc
		Zr	Zirconium

CONCENTRATION, DOSE AND RESPONSE UNITS

Code	Definition	Code	Definition
%	percent	mW	milliwatts
% INHIB	percent inhibition	maturity index	maturity index
% * g	percent multiplied by weight in grams	meq	milliequivalents
% AE	percent acid equivalent	meq/100g	milliequivalents per 100 grams
% CEC	percent of soil cation exchange capacity	meq/100g soil	milliequivalents per 100 grams soil
% CNTL RI	percent of control Ratcliff Index	meq/L	milliequivalents per liter
% DT	percent of digestive tract	meq/eu	milliequivalents per experimental unit
% FATL	percent of total fatty acids	meq/g	milliequivalents per gram
% PC	percent of positive control	meq/kg	milliequivalents per kilogram
% PLIPD	percent of total phospholipid	metric t/ha	metric tons per hectare
% PRTL	percent of total protein	mg	milligrams
% RI	percent Ratcliff Index	mg %	milligrams percent
% S/ppm Zn	percent sulfur per parts per million zinc	mg C/g OM	milligrams carbon per gram organic matter
% TIME	percent of time	mg C2H4/eu/d	milligrams of ethylene produced per experimental unit per day
% WSF	percent water soluble fraction	mg C2H4/eu/h	milligrams of ethylene produced per experimental unit per hour
% act	percent activity	mg CO2/100g soil	milligrams carbon dioxide per 100 grams of soil
% arb	percent arbuscularity	mg CO2/dm2/h	milligrams carbon dioxide per square decameter per hour

Code	Definition	Code	Definition
% ash	percent ash	mg CO2/h/g	milligrams carbon dioxide per hour per gram
% cell volume	percent cell volume	mg CO2/m2/sec	milligrams carbon dioxide per square meter per second
% change	percent change	mg H2O/d*cm2*T	milligrams water per day*square centimeters*Torr
% clitellate	percent clitellate	mg N/100 ml	milligrams nitrogen per 100 milliliter
% corn	percent corn pollen	mg NH3/g org	milligrams ammonia per gram organism
% cortex	percent of cortex	mg NH3/g org/h	milligrams ammonia per gram of organism per day
% dev CNTL	percent deviation from control	mg O2/g org	milligrams oxygen per gram organism
% dose ret	percent dose retained	mg O2/g org/h	milligrams oxygen per gram of organism per day
% dose/g TI	percent of dose per gram of tissue	mg P/100 g	milligrams phosphorus per 100 grams
% dose/h	percent dose per hour	mg P/h/g TI	milligrams phosphorus per hour per gram tissue
% dry wght	percent of dry weight	mg TI/g bdwt	milligrams tissue per gram body weight
% earliness	percent earliness	mg TI/kg bdwt	milligrams tissue per kilogram body weight
% fertile	percent fertile	mg co2/hr/g ndl	milligrams carbon dioxide per hour per gram of needles
% g	percent grams	mg h/L	milligrams hours per liter
% g/g	percent gram per gram	mg pro/g	milligrams protein per gram
% g/g bdwt	percent gram per gram body weight	mg pro/mi	milligrams protein per minute

Code	Definition	Code	Definition
% ingested	percent of ingested	mg urea/g org	milligrams urea per gram organism
% intake	percent of intake	mg urea/g org/h	milligrams urea per gram of organism per day
% lit	percent of litter	mg%	milligram %
% mg	percent milligrams	mg/%	milligrams per percent
% mg/g bdwt	percent milligrams per gram body weight	mg/0.5 cm3	milligrams per 0.5 cubic centimeters
% of CNTL	percent of control value	mg/10 L	milligrams per 10 liters
% of bdwt	percent of body weight	mg/10 g food	milligrams per 10 grams food
% of diet	percent of diet	mg/10 ml	milligrams per 10 milliliters
% of initial	percent of initial value	mg/100 L	milligrams per 100 liters
% of max yld	percent of maximum yield	mg/100 kg org	milligrams per 100 kilograms of organism
% of total	percent of total value	mg/100 lbs	milligrams per 100 pounds
% org	percent of organisms	mg/100 mg TI	milligrams per 100 milligrams tissue
% prod	percent production [(# eggs/# hen days)*100]	mg/100g	milligrams per 100 grams
% sat	percent saturation	mg/100g bw	milligrams per 100 grams body weight
% soil	percent soil	mg/100g bw/d	milligrams per 100 grams body weight/day
% soln	percent solution	mg/100g food	milligrams per 100 grams food
% sperm	percent sperm	mg/100g org	milligrams per 100 grams organism
% tolerance	percent tolerance	mg/100g sd	milligrams per 100 grams seed
% total dose	percent total dose	mg/100g soil	milligrams per 100 grams soil

Code	Definition	Code	Definition
% total oil	percent of total oil content	mg/100g/d	milligrams per 100 grams per day
% v/v	percent volume per volume	mg/100kg bdwt	milligrams per 100 kilograms body weight
% v/w	percent volume per weight	mg/100lb/d	milligrams per 100 pounds per day
% vol	percent volume	mg/100ml	milligrams per 100 milliliters
% w/v	percent weight per volume	mg/100ml diet	milligrams per 100 milliliters diet
% w/w	percent weight per weight	mg/100ul	milligrams per 100 microliters
% wet wght	percent wet weight	mg/10g	milligrams per 10 grams
% wght	percent of weight	mg/10g bdwt	milligrams per 10 grams body weight
% wght/org	percent weight per organism	mg/10g org	milligrams per 10 grams organism
%/d	percent per day	mg/12 h	milligrams per 12 hours
%/g	percent per gram	mg/15 cm3	milligrams per 15 cubic centimeters
%/g TI	percent per gram tissue	mg/15 g fd	milligrams per 15 grams food
%/min	percent per minute	mg/150ml	milligrams per 150 milliliters
%/ml	percent per milliliter	mg/2.5 cm dia	milligrams per 2.5 centimeter diameter
%/org/d	percent per organism per day	mg/20 cm3	milligrams per 20 cubic centimeters
%/wk	percent per week	mg/200 ml	milligrams per 200 milliliters
%FM	percent female	mg/24 h	milligrams per 24 hours
%ML	percent male	mg/24 h/kg	milligrams per 24 hours per kilogram
%NaCl	percent sodium chloride	mg/250 ml	milligrams per 250 milliliters

Code	Definition	Code	Definition
%RBC	percent red blood cells	mg/250g bdwt	milligrams per 250 grams body weight
%succ br/fm	percent successful broods per female	mg/3 L soil	milligrams per 3 liters soil
--	Unspecified	mg/3 kg	milligrams per 3 kilograms
0/00	parts per thousand	mg/3 kg soil	milligrams per 3 kilograms soil
10x6/ul	10x6 microliters	mg/3 ml	milligrams per 3 milliliters
1e+1 kg	1 X 10 +1 kilograms	mg/300 g	milligrams per 300 grams
1e+1 ug/g	1 X 10 +1 micrograms per gram	mg/454g	milligrams per 454 grams
1e+12 no/L	1 X 10 +12 number/l	mg/454g fd	milligrams per 454 grams food
1e+12/l	1 X 10 +12/liter	mg/50 cm2	milligrams per 50 centimeters squared
1e+2 cal/g	1 X 10 +2 calories per gram	mg/500 g soil	milligrams per 500 grams soil
1e+2 mm	1 X 10 +2 millimeters	mg/500 ml	milligrams per 500 milliliters
1e+2 no/mm2	1 X 10 +2 per square millimeter	mg/60 ml	milligrams per 60 milliliters
1e+2 no/mm3	1 X 10 +2 per cubic millimeter	mg/70g	milligrams per 70 grams
1e+2 ug/g	1 X 10 +2 micrograms per gram	mg/L	miligram per liter
1e+3 RA	1 X 10 +3 ratio	mg/L 10 mi	milligrams per liter 10 minutes
1e+3 cell/mg TI	1 X 10 +3 cells per milligram tissue	mg/L media	milligrams per liter media
1e+3 cells	1 X 10 +3 cells	mg/L/d	milligrams per liter per day
1e+3 cells/mm3	1 X 10 +3 cells per cubic millimeter	mg/L/h	milligrams per liter per hour
1e+3 cells/ul	1 X 10 +3 cells per microliter	mg/TI	milligrams per tissue

Code	Definition	Code	Definition
1e+3 cm	1 X 10 +3 number per centimeter	mg/bee	milligrams per bee
1e+3 cm/d	1 X 10 +3 centimeters per day	mg/cc	milligrams per coccoon
1e+3 counts	1 X 10 +3 counts	mg/cm	milligrams per centimeter
1e+3 cpm	1 X 10 +3 counts per minute	mg/cm2	milligrams per square centimeter
1e+3 dpm/TI	1 X 10 +3 disintegrations per minute per tissue	mg/cm2*Torr	milligrams per square centimeters*Torr
1e+3 dpm/g org	1 X 10 +3 disintegrations per minute per gram of organism	mg/cm2/d	milligrams per square centimeter per day
1e+3 dpm/ml	1 X 10 +3 disintegrations per minute per milliliter	mg/cm3	milligrams per cubic centimeter
1e+3 dpm/org	1 X 10 +3/disintegrations per minute per organism	mg/cntr	milligrams per container
1e+3 ng	1 X 10 +3 nanograms	mg/d	milligrams per day
1e+3 ng/g	1 X 10 +3 nanograms per gram	mg/d/100 lbs	milligrams per day per 100 pounds
1e+3 no	1 X 10 +3 number	mg/d/100 mg org	milligrams per day per 100 grams organisms
1e+3 no/cm	1 X 10 +3 number per centimeter	mg/d/bdwt	milligrams per day per body weight
1e+3 no/cm3	1 X 10 +3 number per cubic centimeter	mg/d/wght	milligrams per day per weight
1e+3 no/g TI	1 X 10 +3 number per gram tissue	mg/dl	milligrams per deciliter
1e+3 no/mg SP	1 X 10 +3 number per milligram spleen	mg/dm2/h	milligrams per square decimeter per hour
1e+3 no/ul	1 X 10 +3 no/microliter	mg/dm3	milligrams per cubed decimeter
1e+3 org/acre	1 X 10+3 organisms per acre	mg/dose	milligrams per dose

Code	Definition	Code	Definition
1e+3 sigma u/g	1 X 10+3 sigma units per gram	mg/egg	milligrams per egg
1e+3 um2	1 X 10 +3 square micrometers	mg/eu	milligrams per experimental unit
1e+3/ml	1 X 10 +3/milliliter	mg/fish	milligrams per fish
1e+3/mm3	1 X 10 +3/cubic millimeter	mg/ft2	milligrams per square foot
1e+3/ul	1 X 10 +3/microliter	mg/ft3	milligrams per cubic foot
1e+3RNA/TCA/DNA	1 X 10 +3 (counts per minute RNA per milligram TCA) per milligra	mg/g	milligrams per gram
1e+3dpm/mg DNA	1 x 10+3 disintegrations per minute per milligram DNA	mg/g CRTN	milligrams per gram creatinine
1e+3dpm/mg RNA	1 x 10+3 disintegrations per minute per milligram RNA	mg/g MIT	micrograms per gram mitochondria
1e+4 IU/TI	1 X 10 +4 International units per tissue	mg/g N	milligrams per gram nitrogen
1e+4 IU/g	1 X 10 +4 International units per gram	mg/g TI	milligrams per gram tissue
1e+4 no/mg TI	1 X 10 +4 number per gram tissue	mg/g TI/h	milligrams per gram tissue per hour
1e+4 no/ml	1 X 10 +4 number per milliliter	mg/g ash	milligrams per gram ash
1e+4 no/mm2	1 X 10 +4 per square millimeter	mg/g bdwt	milligrams per gram body weight
1e+4 no/mm3	1 X 10 +4 per cubic millimeter	mg/g bdwt/d	milligrams per gram body weight per day
1e+4 ug/TI	1 X 10+4 micrograms per tissue	mg/g clay	milligram per gram clay
1e+4 ug/g	1 X 10+4 micrograms per gram	mg/g dry wt	milligrams per gram dry weight
1e+4/mm	1 x 10+4 per millimeter	mg/g fd	milligrams per gram food

Code	Definition	Code	Definition
1e+4/mm3	1 x 10+4 per cubic millimeter	mg/g fluid	milligram per gram fluid
1e+5 no	1 X 10 +5 number	mg/g humus	milligrams per gram humus
1e+5 no/g TI	1 X 10 +5 number per gram tissue	mg/g in solvent	milligrams per gram in solvent
1e+6 cells	1 X 10 +6 cells	mg/g org	milligrams per gram of organism
1e+6 cells/mm3	1 X 10 +6 cells per cubic millimeter	mg/g pod	milligrams per gram of pod
1e+6 cm	1 X 10 +6 centimeters	mg/g pro	milligrams per gram protein
1e+6 cpm	1 X 10 +6 counts per minute	mg/g soil	milligrams per gram soil
1e+6 cpm/g TI	1 X 10 +6 counts per minute per gram tissue	mg/g/d	milligrams per gram per day
1e+6 mm3	1 X 10 +6 per cubic millimeter	mg/gal	milligrams per gallon
1e+6 no	1 X 10 +6 number	mg/gland/g bdwt	milligrams per gland per gram body weight
1e+6 no/cm3	1 X 10 +6 number per cubic centimeter	mg/h	milligrams per hour
1e+6 no/g TI	1 X 10 +6 number per gram tissue	mg/h/g bdwt	milligrams per hour per gram body weight
1e+6 no/mg TI	1 X 10 +6 number per milligram tissue	mg/ha	milligrams per hectare
1e+6 no/ml	1 X 10 +6 number per milliliter	mg/in2/d	milligrams per square inch per day
1e+6 no/mm3	1 X 10 +6 number per cubic millimeter	mg/jv	milligrams per juvenile
1e+6 no/org	1 X 10+6 number per organism	mg/kg	milligrams per kilogram
1e+6 no/ul	1 X 10 +6 number per microliter	mg/kg TI	milligrams per kilogram tissue
1e+6/cm3	1 X 10 +6/cubic centimeter	mg/kg bdwt	milligrams per kilogram body weight

Code	Definition	Code	Definition
1e+6/ml	1 X 10 +6/milliliter	mg/kg bdwt/d	milligrams per kilogram body weight per day
1e+6/mm3	1 X 10 +6/cubic millimeter	mg/kg bdwt/wk	milligrams per kilogram body weight per week
1e+6/ul	1 X 10 +6/microliter	mg/kg diet	milligrams per kilogram diet
1e+6no/g	1 X 10 +6 number per gram	mg/kg dry fd	milligrams per kilogram dry food
1e+7 cells	1 X 10+7 cells	mg/kg dry soil	milligrams per kilogram dry soil
1e+7/ml sperm	1 X 10+7 cells per milliliter sperm	mg/kg dry wt	milligram per kilogram dry weight
1e+8 no	1 X 10 +8 number	mg/kg dw org/d	milligrams per kilogram dry weight organism per day
1e+8/mm3	1 X 10 +8 per cubic millimeter	mg/kg egg	milligrams per kilograms egg
1e+9 no	1 X 10 +9 number	mg/kg fd	milligrams per kilogram food
1e+9 no/l	1 X 10 +9 number per liter	mg/kg humus	milligrams per kilogram humus
1e+9 no/ml	1 X 10 +9 number per milliliter	mg/kg litter	milligrams per kilogram litter
1e-1 mg	1 X 10 -1 milligrams	mg/kg media	milligrams per kilogram media
1e-1 mg/mg/d	1 X 10 -1 milligrams per milligrams per day	mg/kg org	milligrams per kilogram organism
1e-1 ug	1 X 10 -1 micrograms	mg/kg org/d	milligrams per kilogram organism per day
1e-2 J/beat/kg	1 x 10 -2 Joules per beat per kilogram	mg/kg p/d	milligrams per kilograms parent per day
1e-2 Nm	1 X 10-2 nanometers	mg/kg seed	milligrams per kilogram seed
1e-2 g/l	1 X 10 -2 grams per liter	mg/kg soil	milligrams per kilogram soil

Code	Definition	Code	Definition
1e-2 mM	1 X 10 -2 millimolar	mg/kg wet fd	milligrams per kilogram wet food
1e-2 mg	1 X 10 -2 milligrams	mg/kg wet wt	milligrams per kilogram wet weight
1e-2 mm	1 X 10 -2 millimeters	mg/kg wet wt media	milligrams per kilogram wet weight media
1e-2 no/ul	1 X 10 -2 number per microliter	mg/kg wt	milligrams per kilogram weight
1e-2 ug/g	1 X 10 -2 micrograms per gram	mg/kg wt/d	milligrams per kilogram weight per day
1e-2 umol Hg/g	1 X 10 -2 micromoles hemaglobin bound per g tissue	mg/kg/C	milligrams per kilograms per degree celcius
1e-2 umol/g TI	1 X 10 -2 micromols per gram tissue	mg/kg/L	milligrams per kilogram per liter
1e-3 RA	1 X 10 -3 ratio	mg/kg/d	milligrams per kilogram per day
1e-3 cm/d	1 X 10 -3 centimeters per day	mg/kg/fish	milligrams per kilogram per fish
1e-3 cpm	1 X 10 -3 counts per minute	mg/kg/h	milligrams per kilograms per hour
1e-3 g/l	1 X 10-3 grams per liter	mg/kg/min	milligrams per kilogram per minute
1e-3 g/ml	1 X 10 -3 grams per milliliter	mg/kg/org	milligrams per kilogram per organism
1e-3 mg	1 X 10 -3 milligrams	mg/kg/wk	milligrams per kilogram per week
1e-3 mg/mg/d	1 X 10 -3 milligrams per milligrams per day	mg/lb	milligrams per pound
1e-3*dyn*s*cm-5	1 X 10 -3 X dynes X seconds per centimeters to the fifth power	mg/m2	milligrams per square meter
1e-4 g/l	1 X 10 -4 grams per liter	mg/m3	milligrams per cubic meter
1e-4 g/ml	1 X 10 -4 grams per milliliter	mg/mg	milligrams per milligrams

Code	Definition	Code	Definition
1e-4 in	1 X 10 -4 inches	mg/mg CREA	milligrams per milligrams creatinine
1e-4 mM	1 X 10 -4 millimolar	mg/mg node	milligrams per milligram nodules
1e-4 mg	1 X 10 -4 milligrams	mg/mi	milligrams per minute
1e-4 mg/cm3	1 X 10 -4 milligrams per cubic centimeter	mg/ml	milligrams per milliliter
1e-4 no	1 X 10 -4 number	mg/ml fd	milligrams per milliliter food
1e-4 uM	1 X 10 -4 micromolar	mg/ml/g wt	milligrams per milliliter per gram weight
1e-4/0.5ml	1 X 10 -4 milligrams per 0.5 milliliters	mg/mm2	milligrams per square milliliter
1e-4dpm/g	1 x 10-4 disintegrations per minute per gram	mg/org	milligrams per organism
1e-4dpm/mg Pi	1 x 10-4 disintegrations per minute per milligram Pi	mg/org/d	milligrams per organism per day
1e-5 g/l	1 X 10 -5 grams per milliliter	mg/org/wk	milligrams per organism per week
1e-5 mM	1 X 10 -5 millimolar	mg/orwt	milligrams per organ weight
1e-5 mg	1 X 10 -5 milligrams	mg/quintal	miligrams per quintal
1e-5 mg/10 ml	1 X 10 -5 milligrams per 10 milliliters	mg/sd	milligrams per seed
1e-5/mm3	1 X 10 -5/cubic millimeter	mg/tuber	milligrams per tuber
1e-6 g/l	1 X 10 -6 grams per liter	mg/vol	milligrams per volume
1e-6 mol/mi/gTI	1 X 10 -6 moles per minute per gram tissue	mg/wk	milligrams per week
1e-7 mg/10 ml	1 X 10 -7 milligrams per 10 milliliter	mg1/3	milligrams to the 1/3 power
1e-9/l	1 X 10 -9/liter	mgdryfd/gwetbdwt/d	milligrams dry food per gram wet body weight per day

Code	Definition	Code	Definition
1mg/10ml	1 milligram per 10 milliliters	mgdryfd/mgwetbdwt/d	milligrams dry food per milligram wet body weight per day
25 mg/40l	25 milligrams per 40 liters	mi	minute
AE	Acid equivalent	mi/12 h	minutes per 12 hours
AI	active ingredient	mi/d	minutes per day
AI %	Active Ingredient percent	mi/nmol Rh	minutes per nanomoles rhodopsin
AI % fd	active ingredient percent food	mi/org	minutes per organism
AI % v/v	active ingredient percent volume per volume	micronaires	micronaires
AI % w/v	active ingredient percent weight per volume	microns	microns
AI % w/w	active ingredient percent weight per weight	ml	milliliters
AI %/100 kg sd	active ingredient percent per 100 kilograms seed	ml CO2/mi	milliliters CO2 per minute
AI %/786 L	active ingredient percent per 786 liters	ml O2	milliliters O2
AI %/L	active ingredient percent per L	ml O2/mg TI	milliliters O2 per milligram tissue
AI %/ha	active ingredient percent per hectare	ml/10 L	milliliter per 10 liters
AI %/wt sd	Active ingredient percent per weight seed	ml/10 L/100 m2	milliliters per 10 liters per 100 square meters
AI 0/00	active ingredient parts per thousand	ml/10.2 L	milliliters per 10.2 liters
AI L/42.1 L/ha	active ingredient liters per 42.1 liters per hectare	ml/100 L	milliliters per 100 liters
AI L/eu	active ingredient liters per experimental unit	ml/100 g bdwt	milliliter per 100 grams body weight

Code	Definition	Code	Definition
AI L/feddan	active ingredient liters per feddan	ml/100 gal	milliliters per 100 gallons
AI L/ha	active ingredient liters per hectare	ml/100 kg sd	milliliters per 100 kilograms seed
AI M	active ingredient molar	ml/100 lb sd	milliliters per 100 pounds seed
AI cm3/eu	active ingredient cubic centimeters per experimental unit	ml/100 m2	milliliters per 100 square meters
AI fl oz/acre	active ingredient fluid ounces per acre	ml/1000 L	milliliters per 1000 liters
AI g	active ingredient grams	ml/1000 ft	milliliters per 1000 foot
AI g/0.405 ha	active ingredient grams per 0.405 hectare	ml/1000 org	milliliters per 1000 organisms
AI g/10 L	active ingredient grams per 10 liters	ml/100g	milliliters per 100 grams
AI g/10 acres	active ingredient grams per 10 acres	ml/100g bdwt/d	milliliter per 100 grams body weight per day
AI g/10 m	active ingredient grams per 10 meter	ml/100g sd	milliliters per 100 grams seed
AI g/100 L	active ingredient grams per 100 liters	ml/100ml	milliliters per 100 milliliters
AI g/100 g sd	active ingredient grams per 100 grams of seed	ml/15.1 L	milliliters per 15.1 liters
AI g/100 gal	active ingredient grams per 100 gallons	ml/16 h	milliliters per 16 hours
AI g/100 kg	active ingredient grams per 100 kilograms	ml/189.25 L	milliliters per 189.25 liters
AI g/100 kg sd	Active ingredient gram per 100 kilograms seed	ml/2.5 cm eu	milliliters per 2.5 centimeters experimental unit
AI g/100 m	active ingredient grams per 100 meters	ml/2.54 cm tkdi	milliliters per 2.54 cm trunk diameter
AI g/1000 L	active ingredient grams per 1000 liters	ml/20 L	milliliters per 20 liters
AI g/100000 sd	active ingredient grams per 100000 seed	ml/2000 L	milliliters per 2000 liters

Code	Definition	Code	Definition
AI g/100m2	active ingredient grams per 100 square meters	ml/24 h	milliliters per 24 hours
AI g/10kg sd	Active ingredient gram per 10 kilograms seed	ml/25 L	milliliters per 25 liters
AI g/1100 L	active ingredient grams per 1100 liters	ml/25 ft	milliliters per 25 feet
AI g/2 L/ha	active ingredient grams per 2 liter per hectare	ml/25 ml	milliliters per 25 milliliters
AI g/2.5 cm dbh	Active ingredient grams per 2.5 centimeter of diameter at breast height	ml/250 ml	milliliters per 250 milliliters
AI g/2.54 cm dbh	active ingredient grams per 2.54 centimeter of diameter at breast height	ml/3.79 L	milliliters per 3.79 liters
AI g/2.54 cm tkdi	active ingredient grams per 2.54 centimeters trunk diameter	ml/3.8 L	milliliters per 3.8 liters
AI g/200 L	active ingredient grams per 200 liters	ml/300 g bdwt	milliliters per 300 grams body weight
AI g/2000 cm3 soil	active ingredient grams per 2000 cubic centimeters soil	ml/45 mi	milliliters per 45 minutes
AI g/25 ml/m	active ingredient grams per 25 milliliters per meter	ml/50 kg seed	milliliters per 50 kilograms seed
AI g/3 ml/m	active ingredient grams per 3 milliliters per meter	ml/500 ml	milliliters per 500 milliliters
AI g/30.5 cm ht	Active ingredient grams per 30.5 centimeters plant height	ml/70d	milliliters per 70 days
AI g/300 L	active ingredient grams per 300 liters	ml/8 L	milliliters per 8 liters
AI g/304.8 m	active ingredient grams per 304.8 meters	ml/8.5 L	milliliters per 8.5 liters
AI g/305 m	active ingredient grams per 305 meters	ml/92.9 m2	milliliters per 92.9 square meters
AI g/378 L	active ingredient grams per 378 liters	ml/929 cm2	milliliters per 929 square centimeters

Code	Definition	Code	Definition
AI g/378.5 L	active ingredient grams per 378.5 liters	ml/946 ml	milliliters per 946 milliliters
AI g/379 L	active ingredient grams per 379 liters	ml/L	milliliters per liter
AI g/400 m2	active ingredient grams per 400 square meters	ml/L/1000 ft2	milliliters per liter per 1000 square foot
AI g/454.6 L/0.4 ha	active ingredient grams per 454.6 liters per 0.4 hectares	ml/L/org	milliliters per liter per organism
AI g/500 g	active ingredient grams per 500 grams	ml/acre	milliliters per acre
AI g/500g soil	active ingredient grams per 500 grams soil	ml/body wt	milliliter per body weight
AI g/6 L	active ingredient grams per 6 liters	ml/cm circ	milliliters per centimeter circumference
AI g/60000 sd	active ingredient grams per 60000 seeds	ml/cntr	milliliters per container
AI g/93 m2	active ingredient grams per 93 square meters	ml/d	milliliters per day
AI g/L soil	active ingredient grams per liter soil	ml/d/100g BW	milliliters per day per 100 grams body weight
AI g/acre	active ingredient grams per acre	ml/d/kg BW	milliliters per day per kilogram body weight
AI g/bushel	active ingredient grams per bushel	ml/d/org	milliliters per day per organism
AI g/cm	active ingredient grams per centimeter	ml/dm2	milliliters per square decimeter
AI g/cm caliper	active ingredient grams per centimeter caliper	ml/eu	milliters per experimental unit
AI g/cm of dbh	active ingredient grams per centimeter of diameter breast height	ml/eu/d	milliliters per experimental unit per day
AI g/cm2	active ingredient grams per square centimeter	ml/ft	milliliters per foot
AI g/dm3	active ingredient grams per cubic decimeter	ml/ft3	milliliter per cubic foot

Code	Definition	Code	Definition
AI g/dn(Cyprus)	Active Ingredient grams per dunam, dunum or donum (Cyprus1338m2)	ml/g	milliliters per gram
AI g/dn(Iraq)	Active Ingredient grams per dunam, dunum or donum (Iraq 2500m2)	ml/g bdwt	milliliters per gram body weight
AI g/dn(Std)	Active Ingredient grams per dunam, dunum or donum (Std 1000m2)	ml/g food	milliliters per gram food
AI g/eu	active ingredient grams per experimental unit	ml/g soil	milliliters per gram soil
AI g/feddan	active ingredient grams per feddan	ml/g/h	milliliters per gram per hour
AI g/ft org	active ingredient grams per foot of organism	ml/gal	milliliters per gallon
AI g/ha	active ingredient grams per hectare	ml/h	milliliters per hour
AI g/hl	active ingredient grams per hectoliter	ml/h/g bdwt	milliliters per hour per gram body weight
AI g/in dia	active ingredient grams per inch diameter	ml/ha	milliliters per hectare
AI g/kg	active ingredient grams per kilogram	ml/hl	milliliter per hectoliter
AI g/kg bdwt	active ingredient grams per kilogram body weight	ml/injection	milliliters per injection
AI g/kg food	active ingredient grams per kilogram food	ml/kg	milliliters per kilogram
AI g/kg plt	active ingredient grams per kilogram pellet	ml/kg bdwt	milliliters per kilogram body weight
AI g/kg soil	active ingredient grams per kilogram soil	ml/kg diet	milliliters per kilogram diet
AI g/m	active ingredient grams per meter	ml/kg dry seed	milliliters per kilogram dry seed
AI g/m2	active ingredient grams per sq m	ml/kg org/d	milliliters per kilogram organism per day

Code	Definition	Code	Definition
AI g/m2 canopy	active ingredient grams per square meter canopy	ml/kg sd	milliliters per kilograms seed
AI g/m3	active ingredient grams per cubic meter	ml/kg soil	milliliters per kilogram soil
AI g/ml	active ingredient grams per milliliter	ml/kg/d	milliliters per kilogram per day
AI g/org	active ingredient grams per organism	ml/m	milliliters per meter
AI g/t	active ingredient grams per ton	ml/m2	milliliters per square meter
AI g/unit	active ingredient grams per unit	ml/m3	milliliters per cubic meter
AI gal/100gal/acre	active ingredient gallons per 100 gallons per acre	ml/mi	milliliter per minute
AI gal/acre	active ingredient gallons per acre	ml/mi/100g	milliliters per minute per 100 grams
AI kg	active ingredient kilograms	ml/mi/kg	milliliters per minute per kilogram
AI kg /0.4 ha	active ingredient kilograms per 0.4 hectares	ml/org	milliliters per organism
AI kg/100 L	active ingredient kilograms per 100 liters	ml/org/d	milliliters per organism per day
AI kg/100 kg sd	active ingredient kilograms per 100 kilograms seed	ml/plot	milliliters per plot
AI kg/1000 m	active ingredient kilograms per 1000 meters	ml/quintal	milliliters per quintal
AI kg/1122 L/ha	active ingredient kilograms per 1122 liters per hectare	ml/s	milliliters per second
AI kg/2338 L/ha	active ingredient kilograms per 2338 liters per hectare	ml/wk	milliliters per week
AI kg/3.74 L/ha	active ingredient kilograms per 3.74 liters per hectare	mlcl/actin mlcl	molecules per actin molecule

Code	Definition	Code	Definition
AI kg/3741 L/ha	active ingredient kilograms per 3741 liters per hectare	mm	millimeters
AI kg/378 L	active ingredient kilograms per 378 liters	mm X 100	millimetes X 100
AI kg/378.5 L	active ingredient kilograms per 378.5 liters	mm/d	millimeters per day
AI kg/L	active ingredient kilograms per liter	mm/h	millimeters per hour
AI kg/acre	active ingredient kilograms per acre	mm/org	millimeters per organism
AI kg/eu	active ingredient kilograms per experimental unit	mm/ug pro	millimeters per microgram protein
AI kg/feddan	active ingredient kilograms per feddan, or faddan (1 feddan = 1.038 acres)	mm2	square millimeters
AI kg/ha	active ingredient kilograms per hectare	mm2/mm3 * 1e-9	square millimeters per cubic millimeter X 1 X 10 -9
AI kg/ha soil	active ingredient kilograms per hectare soil	mm2/org/d	square millimeters per organism per day
AI lb/10 gal	active ingredient pounds per 10 gallons	mm3	cubic millimeters
AI lb/100 ft2	active ingredient pounds per 100 square feet	mm3/100g dry soil	cubic millimeters per 100 grams dry soil
AI lb/100 gal	active ingredient pounds per 100 gallons	mm3/L	cubic millimeter per liter
AI lb/100gal/acre	active ingredient pounds per 100 gallons per acre	mm3/dm3	cubic millimeters per cubic decimeter
AI lb/11 gal/acre	Active Ingredient pounds per 11 gallons per acre	mm3/l	cubic millimeters per liter
AI lb/acre	active ingredient pounds per acre	mm3/mg/h	cubic millimeters per milligram per hour

Code	Definition	Code	Definition
AI lb/cwt sd	active ingredient pounds per hundred weight seed	mm3/mm3	cubic millimeters per cubic millimeter
AI lb/eu	active ingredient pounds per experimental unit	mmHg	millimeters mercury
AI lb/ga	active ingredient pounds per gallon	mmHg/beat/mi*-3	millimeters mercury per beat per minute * 1 X 10-3
AI lb/gal/acre	active ingredient pounds per gallon per acre	mmHg/s	millimeters mercury/second
AI mL/eu	active ingredient milliliter per experimental unit	mmg	micromilligrams
AI mM	active ingredient milliMolar	mmol	millimoles
AI mg	active ingredient milligrams	mmol H2O/m2/s	millimoles water per square meter per second
AI mg/0.1 m2	active ingredient milligrams per 0.1 square meters	mmol NO2/kg	millimoles nitrogen dioxide per kilogram
AI mg/100 cm3	active ingredient milligrams per 100 cubic centimeters	mmol/ g food	millimoles per gram food
AI mg/100 kg	active ingredient milligrams per 100 kilograms	mmol/100 g	millimoles per 100 grams
AI mg/1800 g	active ingredient milligrams per 1800 grams	mmol/100 g bdwt	millimoles per 100 grams body weight
AI mg/2 L fd	active ingredient milligrams per 2 liters food	mmol/L	millimoles per liter
AI mg/300 ml	active ingredient milligrams per 300 millilters	mmol/L soil	millimoles per liter soil
AI mg/4.41 m2	active ingredient milligrams per 4.41 square meters	mmol/d	millimoles per day

Code	Definition	Code	Definition
AI mg/L	active ingredient milligram per Liter	mmol/dm3	millimoles per cubic decimeter
AI mg/L fd	active ingredient milligrams per liter food	mmol/g	millimoles per gram
AI mg/cm2	active ingredient milligrams per square centimeter	mmol/g dry wt	millimoles per gram dry weight
AI mg/cm3	active ingredient milligrams per cubic centimeter	mmol/h/g TI	millimoles per hour per gram tissue
AI mg/d	active ingredient milligrams per day	mmol/kg	millimoles per kilogram
AI mg/eu	active ingredient milligrams per experimental unit	mmol/kg bdwt	millimoles per kilogram body weight
AI mg/g	active ingredient milligrams per gram	mmol/kg bdwt/d	millimoles per kilogram body weight per day
AI mg/g fd	active ingredient milligrams per gram food	mmol/kg dry bdwt/d	millimoles per kilogram dry body weight per day
AI mg/ha	active ingredient milligrams per hectare	mmol/kg dry fd/d	millimoles per kilogram dry food per day
AI mg/kg	active ingredient milligrams per kilogram	mmol/kg egg	millimoles per kilogram egg
AI mg/kg bdwt	active ingredient milligrams per kilogram body weight	mmol/kg fd	millimoles per kilogram fd
AI mg/kg bdwt EU	active ingredient milligrams per kilogram body weight of experimental unit	mmol/kg media	millimoles per kilogram media
AI mg/kg bdwt/d	active ingredient milligrams per kilograms body weight per day	mmol/kg soil	millimoles per kilogram soil
AI mg/kg dry soil	active ingredient milligrams per kilogram dry soil	mmol/kg/d	millimoles per kilogram per day

Code	Definition	Code	Definition
AI mg/kg fd	active ingredient milligrams per kilogram food	mmol/kg/h	millimoles per kilogram per hour
AI mg/kg soil	active ingredient milligrams per kilogram soil	mmol/m2	millimoles per square meter
AI mg/kg/d	active ingredient milligrams per kilogram per day	mmol/m2/s	millimoles per square meter per second
AI mg/m	Active ingredient milligrams per meter	mmol/m3	millimoles per cubic meter
AI mg/m2	active ingredient milligrams per square meter	mmol/mg/mi	millimoles per milligram per minute
AI mg/org	active ingredient milligrams per organism	mmol/mi/mg	millimoles per minute per milligram
AI mg/sd	active ingredient milligrams per seed	mmol/ml/h	millimoles per milliliter per hour
AI ml/100 L	active ingredient milliliters per 100 liters	mmu	absolute milli-mass units
AI ml/100 gal	active ingredient milliliters per 100 gallons	mo	month
AI ml/100 kg	active ingredient milliliters per 100 kilograms	mol	moles
AI ml/1000 L	active ingredient milliliters per 1000 liters	mol NO2/h/g	moles nitrogen dioxide per hour per gram
AI ml/378 L	active ingredient milliliters per 378 liters	mol/1000 ft3	moles per 1000 cubic feet
AI ml/500 g	active ingredient milliliter per 500 grams	mol/9.29 m2	moles per 9.29 square meters
AI ml/L	active ingredient milliliters per liter	mol/L	moles per liter
AI ml/ha	active ingredient milliliters per hectare	mol/L/day	moles per liter per day
AI ml/kg	Active Ingredient milliliters per kilogram	mol/dm3	moles per cubic decimeter

Code	Definition	Code	Definition
AI ml/kg diet	Active Ingredient milliliters per kilogram diet	mol/egg	moles per egg
AI ml/kg sd	Active ingredient milliliters per kilograms seed	mol/g	moles per gram
AI ml/m	active ingredient milliliters per meter	mol/g bdwt	moles per gram body weight
AI ml/m2	active ingredient milliliters per square meter	mol/g soil	moles per gram soil
AI ml/m2 canopy	active ingredient milliliters per square meter canopy	mol/ha	moles per hectare
AI ml/mi	active ingredient milliliters per minute	mol/kg	moles per kilogram
AI ml/org	Active Ingredient milliliters per organism	mol/kg bdwt	moles per kilogram body weight
AI ml/t	active ingredient milliliters per ton	mol/m3	moles per cubic meter
AI mmol/dm3	active ingredient millimoles per cubic decimeter	mol/ml	moles per milliliter
AI mol/eu	active ingredient moles per experimental unit	mol/org	moles per organism
AI mol/kg	Active ingredient moles per kilogram	mol/umol	moles per micromole
AI ng	active ingredient nanograms	molal	Molality
AI ng/L	active ingredient nanograms per liter	mole %	mole percent
AI ng/cm2	active ingredient. nanograms per square centimeter	morph/org	ectomycorrhizal morphotypes per organism
AI ng/cm2 lf	active ingredient nanograms per square centimeter leaf	mosmols/l	mosmoles (conc osmotic particles in solution) per liter
AI ng/eu	active ingredient nanograms per experimental unit	mouse unit/ml	mouse units per milliliter

Code	Definition	Code	Definition
AI ng/g	active ingredient nanograms per gram	mp/mg pro/15mi	microsomal proteins/milligram protein per 15 minutes
AI ng/kg fd	active ingredient nanograms per kilogram food	ms	milliseconds
AI ng/mL	active ingredient nanograms per milliliter	mu/24 h	milliunit per 24 hours
AI ng/mg bdwt	active ingredient nanograms per milligrams body weight	mu/mg	milliunit per milligram
AI ng/org	active ingredient nanograms per organism	mu/mi/ml	milliunit per minute per milliliter
AI ng/org/d	active ingredient nanograms per organism per day	mumol/0.5 ul	millimicromoles per 0.5 microliter
AI ng/ul diet	Active ingredient nanograms per microliter diet	mumol/g	mumoles per gram
AI oz/100 gal	active ingredient ounces per 100 gallons	mumol/g/mi	mumoles per gram per minute
AI oz/100 lb sd	active ingredient ounces per 100 pounds seed	munits	milliunits
AI oz/1000 ft	active ingredient ounces per 1000 feet	munits/org	milliunits per organism
AI oz/1000 ft2	active ingredient ounces per 1000 square feet	nCi	nanoCuries
AI oz/25 lb bdw	active ingredient ounces per 25 pounds body weight	nCi/L	nanoCuries per liter
AI oz/40 gal	active ingredient ounces per 40 gallons	nCi/g org	nanocuries per gram organism
AI oz/acre	active ingredient ounces per acre	nM	nanoMolar (nanomoles per liter)
AI oz/cwt sd	active ingredient ounces per hundredweight seed	nM DSMN:uM LYSI	nanomoles desmosine to micromoles lysine ratio

Code	Definition	Code	Definition
AI oz/in dbh	active ingredient ounces per inches diameter at breast height	nM/L	nanoMolar per liter
AI oz/lb seed	active ingredient ounces per pound seed	nM/g	nanoMolar per gram
AI ppb	active ingredient parts per billion	neq/g	nanoequivalents per gram
AI ppm	active ingredient parts per million	ng	nanograms
AI ppm H2O	active ingredient parts per million water	ng ATP/g dry soil	nanograms ATP per grams dry soil
AI ppm food	active ingredient parts per million food	ng days/L	nanogram days per liter
AI ppm soil w/w	active ingredient parts per million soil weight per weight basis	ng eq/ml	nanograms equivalents per milliliter
AI ppmw/soil vol	active ingredient parts per million by weight per soil volume	ng/0.3 L	nanograms per 0.3 liters
AI ppt	Active ingredient parts per trillion	ng/0.5 ml	nanograms per 0.5 milliliters
AI pt/acre	active ingredient pints per acre	ng/100 ml	nanograms per 100 milliliters
AI uM	active ingredient microMolar	ng/100g bdwt	nanograms per 100 grams per bodyweight
AI ug	active ingredient micrograms	ng/20 ul fd	nanograms per 20 microliters food
AI ug/0.5 ul	active ingredient micrograms per 0.5 microliters	ng/24h	nanograms per 24 hours
AI ug/10 ul	active ingredient micrograms per 10 microliters	ng/L	nanograms per liter
AI ug/100 cm2	active ingredient micrograms per 100 square centimeters	ng/TI	nanograms per tissue
AI ug/L	active ingredient micrograms per Liter	ng/cm	nanograms per centimeter

Code	Definition	Code	Definition
AI ug/cm2	active ingredient micrograms per square centimeter	ng/cm2	nanograms per square centimeter
AI ug/cm2 diet	active ingredient micrograms per square centimeters diet	ng/d	nanograms per day
AI ug/cm2 media	active ingredient micrograms per square centimeter of media	ng/dl	nanograms per deciliter
AI ug/eu	active ingredient micrograms per experimental unit	ng/egg	nanograms per egg
AI ug/g	active ingredient micrograms per gram	ng/eu	nanograms per experimental unit
AI ug/g bdwt	active ingredient micrograms per gram body weight	ng/fish	nanograms per fish
AI ug/g dry fd	active ingredient micrograms per gram dry food	ng/g	nanograms per gram
AI ug/g dry soil	active ingredient micrograms per gram dry soil	ng/g TE	nanograms per gram Toxic Equivalences
AI ug/g eu	active ingredient micrograms per gram experimental unit	ng/g TI	nanograms per gram tissue
AI ug/g org	active ingredient micrograms per gram organism	ng/g TI/4 h	nanograms per gram tissue per 4 hours
AI ug/g soil	active ingredient micrograms per gram soil	ng/g bdwt	nanograms per gram body weight
AI ug/kg	active ingredient micrograms per kilogram	ng/g diet	nanograms per gram diet
AI ug/kg bdwt/d	active ingredient micrograms per kilogram body weight per day	ng/g dry fd	nanograms per gram dry food
AI ug/kg fd	active ingredient micrograms per kilogram food	ng/g dry wt	nanograms per gram dry weight

Code	Definition	Code	Definition
AI ug/kg soil	active ingredient micrograms per kilogram soil	ng/g dw soil	nanograms per gram dry weight soil
AI ug/mg 100 ml solv	active ingredient micrograms per milligram in 100 milliliters of solvent	ng/g egg	nanograms per gram egg
AI ug/mg bdwt	active ingredient micrograms per milligram body weight	ng/g org	nanograms per gram organism
AI ug/ml	active ingredient micrograms per milliliter	ng/g org/d	nanograms per gram organism per day
AI ug/org	active ingredient micrograms per organism	ng/g soil	nanograms per gram soil
AI ug/sd	active ingredient micrograms per seed	ng/g wet wt	nanograms per gram wet weight
AI ug/ul	active ingredient micrograms per microliter	ng/g wet wt diet	nanograms per gram wet weight diet
AI ul/L	active ingredient microliters per Liter	ng/g/d	nanogram per gram per day
AI ul/ml	active ingredient microliters per milliliter	ng/gland	nanograms per gland
AI umol/kg dry soil	active ingredient micromoles per kilogram dry soil	ng/h	nanograms per hour
AI4.7L/42.1L/ha	active ingredient 4.7 liters per 42.1 liters per hectare	ng/kg	nanograms per kilogram
ALB:YK	albumen to yolk ratio	ng/kg bdwt/d	nanograms per kilogram body weight per day
AU	arbitrary units	ng/kg fd	nanograms per kilogram food
B'	Chromatid break	ng/kg soil	nanograms per kilogram soil
B''	Isochromatid break	ng/kg/d	nanograms per kilogram per day

Code	Definition	Code	Definition
BB units	BB units	ng/kg/wk	nanograms per kilogram per week
BO:LI	bone to liver ratio	ng/mg	nanograms per milligram
BR:BL	ratio of brain to blood	ng/mg bdwt	nanograms per milligram body weight
BU	Bessey Units	ng/mg fd	nanograms per milligram food
Bq	Becquerels	ng/mg pro	nanograms per milligram protein
Bq/L	Becquerels per liter	ng/mg/mi	nanograms per milligram per minute
Bq/g	Becquerels per gram	ng/mi/kg bdwt	nanograms per minute per kilograms body weight
Bq/kg	Becquerels per kilogram	ng/min	nanograms per minute
Bq/mg	Becquerels per milligram	ng/ml	nanograms per milliliter
Bq/ml	Becquerels per milliliter	ng/ml blood/d	nanograms per milliliter blood per day
Bq/org	Becquerels per organism	ng/ml fd	nanograms per milliliter food
C	Centigrade, degrees	ng/ml/h	nanograms per milliliter per hour
CHLA:CHLB	ratio of chlorophyll a to chlorophyll b	ng/ml/mi	nanograms per milliliter per minute
CI	color index	ng/mm/day	nanograms per millimeter per day
CRB:BR	ratio of cerebellum to brain	ng/org	nanograms per organism
CRM:BR	ratio of cerebrum to brain	ng/org/d	nanograms per org per day
CWU	CW units	ng/orwt	nanograms per organ weight
Ci/L	Curies per liter	ng/ul	nanograms per microliter

Code	Definition	Code	Definition
Ci/mmol	Curies per millimole	ngTEQ/kg bdwt/d	nanograms Toxic Equivalency Conc per kilogram body weight perday
Ci/mol	Curies per mole	nkat/mg pro	nanokatals per milligrams protein
DB/mg pro	lipid aliphatic double bonds per milligram protein	nl/L	nanoliter per liter
DNA:Protein	ratio of DNA to protein	nl/cm2	nanoliter per square centimeter
DNA:RNA	DNA to RNA ratio	nl/ml	nanoliters per milliliter
Draize score	Draize score	nl/org	nanoliters per organism
EU/g	enzyme unit (amt of enzyme needed to catalyze)/g	nmol	nanomoles
FD:Gain	ratio of weight of food consumed to weight gained	nmol ATP/g soil	nanomoles adenosine triphosphate per gram of soil
FD:WTR	food to water ratio	nmol DOPA/g/h	nanomoles DOPA per gram per hour
FER	feed efficiency ratio	nmol H2O2/mi/mg	nanomoles of peroxide per minute per milligram protein
FM	females	nmol MDA/mg pro	nanomoles malonaldehyde per milligram protein
FM/lit	females per litter	nmol PBG/g TI/h	nanomoles porphobilinogen per gram tissue per hour
FM:ML	females to males ratio	nmol PBG/h/ml	nanomoles porphobilinogen per hour per milliliter
FTS:PLC	fetus to placenta ratio	nmol enz/hr	nanomoles enzyme per hour
FU/g	fluorescence units per gram	nmol mdhyde/g	nanomoles malondialdehyde per gram
G'	Chromatid gap	nmol/100 mg pro	nanomoles per 100 milligrams protein

Code	Definition	Code	Definition
G''	Isochromatid gap	nmol/100mgpro/h	nanomoles per 100 milligrams protein per hour
Gain:FD	ratio of weight gained to weight of food consumed	nmol/L	nanomoles per liter
H'	Shannon-Weiner Diversity index	nmol/TI	nanomoles per tissue
HA units	Hemaglutinating units	nmol/cm2	nanomoles per square centimeter
Haugh U	Haugh units	nmol/egg	nanomoles per egg
ICU/kg diet	International chick unit per kilogram diet	nmol/g	nanomoles per gram
IU	International Units	nmol/g TI	nanomoles per gram tissue
IU/100 g bdwt	International Units per 100 grams body weight	nmol/g TI/h	nanomoles per g tissue per hour
IU/L	International units per liter	nmol/g bw	nanomoles per gram body weight
IU/d	International Units per day	nmol/g dry wt	nanomoles per gram dry weight
IU/g	International Units per gram	nmol/g food	nanomoles per gram food
IU/g TI	International Units per gram tissue	nmol/g humus	nanomoles per gram humus
IU/g diet	International units per gram diet	nmol/g lipid	nanomoles per gram lipid
IU/kg	International Units per kilogram	nmol/g pro	nanomoles per gram protein
IU/kg bdwt	International Units per kilogram body weight	nmol/g pro/mi	nanomoles per gram protein per minute
IU/kg diet	International units per kilogram diet	nmol/g ro/4 h	nanomoles per gram root per 4 hours
IU/mg	International Units per milligram	nmol/g soil	nanomoles per gram soil
IU/mg Hb	International Units per milligram hemoglobin	nmol/g wet wt	nanomoles per gram wet weight

Code	Definition	Code	Definition
IU/mg TI	International Units per milligram tissue	nmol/g/30mi	nanomoles per gram per 30 minutes
IU/mg pro	International Units per milligram pro	nmol/g/4 mi	nanomoles per gram per 4 minutes
IU/ml	International Units per milliliter	nmol/g/h	nanomoles per gram per hour
IU/orgwt	International Units per organ weight	nmol/g/mi	nanomoles per gram per minute
J/beat	Joules per beat	nmol/h/mg pro	nanomoles per hour per milligram protein
J/d	Joules per day	nmol/h/ml RBC	nanomoles per hour per milliliter red blood cells
K units	Karmen units	nmol/kg	nanomoles per kilogram
K/ml	karmen units per milliliter	nmol/kg bdwt	nanomoles per kilogram body weight
KA units	King/Armstrong units	nmol/kg/mi	nanomoles per kilogram per minute
KA/100ml	King/Armstrong units per 100 milliliters	nmol/mg	nanomoles per milligram
KA/g	King/Armstrong units per gram	nmol/mg TI	nanomoles per milligram tissue
KI:BR	kidney to brain ratio	nmol/mg pro	nanomoles per milligram per protein
Kunit/ml	k unit per milliliter	nmol/mg pro/h	nanomoles per milligram protein per hour
L	Liters	nmol/mg pro/mi	nanomoles per milligram protein per minute
L/0.4 ha	liter per 0.4 ha	nmol/mg/15mi	nanomoles per milligram protein per 15 minutes
L/1.4 m3 soil	liters per 1.4 cubic meters soil	nmol/mg/20mi	nanomoles per milligram protein per 20 minutes
L/1.5 cm3 soil	liters per 1.5 cubic centimeters soil	nmol/mg/h	nanomoles per milligram per hour

Code	Definition	Code	Definition
L/10 ac	liters per 10 acres	nmol/mg/mi	nanomoles per milligram per minute
L/100 lbs sd	liters per 100 pounds seed	nmol/mgpro/30mi	nanomoles per milligram protein per 30 minutes
L/1000 bu	liters per 1000 bushels	nmol/mi/g	nanomoles per minute per gram
L/1041 L/ha	liters per 1041 liters per hectare	nmol/mi/mg	nanomoles per minute per milligram
L/160 m soil	liters per 160 meters soil	nmol/mi/mg pro	nanomoles per minute per milligram protein
L/161 m soil	liters per 161 meters soil	nmol/mi/ml	nanomoles per minute per milliliter
L/80 kg N/ha	liters per 80 kilograms nitrogen per hectare	nmol/mi/ml RBC	nanomoles per minute per milliliter red blood cells
L/feddan	liters per feddan	nmol/mi/org	nanomoles per minute per organism
L/g	liters per gram	nmol/ml	nanomoles per milliliter
L/ha	Liters per hectare	nmol/ml RBC/h	nanomoles per milliliter red blood cells per hour
L/kg	liters per kilogram	nmol/mlpro/30mi	nanomoles per milliliter protein per 30 minutes
L/km	liters per kilometer	nmol/mol	nanomoles per mole
L/m2	Liters per square meter	nmol/nm p450/mi	nanomoles per nanomol cytochrome P450 per minute
L/m3	liters per cubic meter	nmol/org	nanomoles per organism
L/mg	liters per milligram	nmol/org/0.5h	nanomoles per organism per 0.5 hours
LGTH/s	length per second	nmol/org/h	nanomoles per organism per hour
LGTH:THIK	length to thickness ratio	no	number
LI:BR	liver to brain ratio	no >15cm	number that are greater than 15 centimeters

Code	Definition	Code	Definition
LU:BR	lung to brain ratio	no errors	no errors
M	molar	no follicles	number of follicles
M/dm3	molar per cubic decameter	no sites	number of sites
M/m3	molar per cubic meter	no/1 mi	number per 1 minute
MBq	Megabecquerel	no/10 mi	number per 10 minutes
MK:SR	milk to serum ratio	no/100 WBC	number per 100 white blood cells
ML	males	no/100 blsm clt	number per 100 blossom cluster
ML/lit	males per litter	no/100 u2	number per 100 square microns
ML/total	males per total population	no/100 um2	number per 100 square micrometers
ML:FM	males to females ratio	no/1000	number per 1000
MPa	megaPascals	no/1000 RBCE	number per 1000 red blood cells
N	Normal	no/1000 sperm	number per 1000 sperm
NA	not applicable	no/1000 um2	number per 1000 square micrometers
NC	not coded	no/12 h	number per 12 hours
NR	Not Reported	no/15 mi	number per 15 minutes
OD	optical density	no/15000x field	number per 15000x field
OD/100% RBC	optical density of 100% red blood cells	no/2.8 mm2	number per 2.8 square millimeters
OD/50 mg pro	optical density per 50 milligrams protein	no/200 cells	number per 200 cells
OD/WGHT	optical density per unit weight	no/30 mi	number per 30 minutes
OD/g pro	units of optical density change per gram protein	no/33 lbs	number per 33 pounds

Code	Definition	Code	Definition
OD/mg pro	optical density per milligram protein	no/5 mi	number per 5 minutes
OD/mi/mg pro	optical density per minute per milligram protein	no/5000 cells	number per 5000 cells
OT	optical transmission	no/area	number per area
OT/1 cm WDTH	optical transmission per 1 centimeter bone width	no/cell	number per cell
OT/10 cm BO	optical transmission per 10 centimeters bone	no/cm	number per centimeter
OT/10kg WGHT	optical transmission per 10 kilograms weight	no/d	number per day
OT/1mm CCT	optical transmission per 1 millimeter combined cortical thicknes	no/eu	number per experimental unit
OV:BR	ovary to brain ratio	no/fm	number per female
Odx10x3	optical density x10x3	no/g	number per gram
PCI	plastochron index	no/g soil	number per gram soil
PIg/L	PI grams per liter	no/h	number per hour
PL:BL	plasma to blood ratio	no/ha	number per hectare
PLC:BL	placenta to blood ratio	no/litter	number of organisms per litter
PSU	practical salinity units	no/m	number per meter
R	weight/(lenght x width)	no/m2	number per square meter
RA	ratio	no/mg TI	number per milligram tissue
RA 1e-3	ratio X 1e-3	no/mi	number per minute
RA/wk	ratio per week	no/mm2	number per square millimeter
RF units	RF units	no/mm2 * 1e-4	number per square millimeter X 1 X 10-4
RI	Ratcliffe index	no/mm3	number per cubic millimeter

Code	Definition	Code	Definition
RNA:DNA	RNA to DNA ratio	no/mm3 * 1e-4	number per cubic millimeter X 1 X 10 -4
RNA:Protein	RNA to protein ratio	no/mm3 * 1e-8	number per cubic millimeter X 1 X 10 -8
RR	Centric fusions	no/mo	number per month
RSA/TI	relative specific activity per tissue	no/neuron *1e-3	number per neuron X 1 X 10 -3
RV:TV	ratio of right ventricle to total ventricle	no/nuclei	number per nuclei
SA	Specific activity	no/org	number per organism
SFU	sigma Frankel units	no/org/d	number per organism per day
SL units	SL units	no/panicle	numbers per panicle
SL:ME	slice to median ratio	no/plot	number per plot
SP:BR	spleen to brain ratio	no/preg FM	number per pregnant female
T3:T4	Ratio of triidothyronine (T3) to thyroxine (T4)	no/sec	number per second
TE:BR	testes to brain ratio	no/section	number per section
TI:BL	Ratio of tissue to blood	no/seed	number per seed
TS:BR	thymus to brain ratio	no/sertoli cell	number per sertoli cells
Tbsp/eu	Tablespoons per experimental unit	no/so	number per shoot
Tbsp/gal	Tablespoons per gallon	nuclei:nucleoi	nuclei to nucleoi ratio
U of fl	Units of fluorescence	oocytes	oocytes
U/0.2 ml	units per 0.2 milliliters	open bol/org	opened bolls per organism
U/100 mg TI	Units per 100 milligram tissue	org	organism
U/kg	Units per kilogram	org conc/soil c	organism concentration per soil concentration
U/kg dry diet	units per kilogram dry diet	org/0.25ft2	organisms per 0.25 square feet
USP/org	USP units per organism	org/0.25m2	organisms per 0.25 square meters

Code	Definition	Code	Definition
V	value	org/0.3m	organisms per 0.3 meters
W units	Wrobleski units	org/10 m	organisms per 10 meters
WER	water efficiency ratio	org/100g soil	organisms per 100 grams soil
WO:LI	Whole organism to liver ratio	org/200 m2	organisms per 200 square meters
Wijs number	Wijs number	org/200cm3 soil	number of organisms per 200 cubic centimeters of soil
[%inhib]	[percent inhibition: % is unit, inhib is measurement]	org/50cm2	organisms per 50 square centimeters
a-amino N/24h	alpha aminonitrogen per 24 hours	org/60 leaves	organisms per 60 leaves
absrb	absorbance	org/cm ro	organisms per centimeter root
acre foot	acre foot	org/cntr	organisms per container
act	activity	org/d/cntr	organisms per day per container
act/g TI	activity per gram tissue	org/eu	organisms per experimental unit
act/g pro	activity per gram protein	org/fm	organisms per female
activ/nonactiv	activated to non-activated ratio	org/ft2	organisms per square foot
acts/3 mi	acts per 3 minutes	org/g	organisms per gram
ad	adults	org/g dry soil	organisms per gram dry soil
ad/jv	adults per juvenile	org/g humus	organisms per gram humus
ae M	acid equivalents molar	org/g root	organisms per gram root
ae g/100 m2	acid equivalents grams per 100 square meters	org/g soil	organisms per gram soil

Code	Definition	Code	Definition
ae g/200 L	acid equivalents grams per 200 liters	org/ha	organisms per hectare
ae g/L	acid equivalents grams per liter	org/kg soil	organisms per kilogram soil
ae g/ha	grams acid equivalents per hectare	org/km2	organisms per square kilometer
ae kg/ha	acid equivalents kilograms per hectare	org/lit	organisms per litter
ae lb/100 gal	acid equivalent pounds per 100 gallons	org/m	organisms per meter
ae lb/acre	acid equivalents pounds per acre	org/m2	organisms per square meter
ae lb/gal	acid equivalent pounds per gallons	org/mi	organisms per minute
ae mg/L	acid equivalents milligrams per liter	org/plot	organisms per plot
ae mg/kg	acid equivalents milligrams per kiligrams	org/sample	organisms per sample
ae mg/kg/d	acid equivalents milligrams per kilogram per day	org/sector	number of organisms per sector
ae mg/m2	acid equivalents milligrams per square meter	org/site	organisms per site
ae mg/org	acid equivalents milligrams per organism	org/trap	organism per trap
ae mmol/kg soil	acid equivalents millimoles per kilogram soil	org/trap/d	organisms per trap per day
ae oz/100gal/acre	acid equivalents ounces per 100 gallons per acre	org/tree	organisms per tree
ae ppb	acid equivalents parts per billion	org/w>150 mmHg	organisms with blood pressure >150 millimeters mercury
ae ppm	acid equivalents parts per million	org/w>160 mmHg	organisms with blood pressure >160 millimeters mercury

Code	Definition	Code	Definition
ae ug/L	acid equivalents micrograms per liter	org/wk	organisms per week
ae ug/ml	acid equivalents micrograms per milliliter	oz	ounces
ai g/L	active ingredient grams per liter	oz/100 gal	ounces per 100 gallons
ai g/kg sd	active ingredient grams per kilogram seed	oz/100 gal/acre	ounces per 100 gallons per acre
ai kg/379 l	active ingredient kilograms per 379 liters	oz/100 lb seed	ounces per 100 pound seed
ai lb/ha	active ingredient pounds per hectare	oz/1000 ft	ounces per 1000 feet
ai mg/kg org	active ingredient milligrams per kilogram organism	oz/1000 ft2	ounces per 1000 square feet
ai mg/ml	active ingredient milliliters per milliliter	oz/1000 ft3	ounces per 1000 cubic feet
ai ml/100m2	active ingredient milliliters per 100 square meters	oz/2.5 gal	ounces per 2.5 gallons
ai oz/bu	active ingredient ounces per bushel	oz/305 m	ounces per 305 meters
ai oz/bu sd	active ingredient ounces per bushel of seed	oz/acre	ounces per acre
amend:unamend	amended to unamended treatments ratio	oz/bu	ounces per bushel
amol/cell	attomoles per cell	oz/cwt	ounces per hundred weight
b/ml	billions per milliliter	oz/cwt sd	ounces per hundred weight seed
beats*ml/mi2	beats*milliliters per square minute	oz/ft2	ounces per square feet
beats/mi	beats per minute	oz/gal	ounces per gallon
bees/d	bees per day	oz/lb	ounces per pound
births	births	oz/lb sd	ounces per pound seed

Code	Definition	Code	Definition
bits	bits	oz/org	ounces per organism
branches/org	number of branches per organism	pCi/L	picoCuries per liter
bt/mi		pCi/g	picoCuries per gram
bud/org	buds per organism	pCi/ml	picoCuries per milliliter
burrows	burrows	pH	pH
bushel/acre	bushels per acre	pM	picoMolar
bushels	bushels	pair	pair
cRNA/mgRNA/DNA	(counts per minute RNA per milligram RNA) per milligram DNA	pc	permeability constant
cal	calories	pecks/s	pecks per second
cal/d	calories per day	pellet/d	pellets per day
castings	castings	pellet/org/d	pellets per organism per day
casts/eu	casts per experimental unit	pellets	pellets
casts/m2/d	casts per square meter per day	pg	picograms
casts/pl	casts per plot	pg TE/g egg	picograms Toxic Equivalent per gram egg
cc	cocoons	pg/L	picograms per liter
cc/10 ad	cocoons per 10 adults	pg/TI	picograms per tissue
cc/ad	cocoons per adult	pg/cell	picograms per cell
cc/cntr	cocoons per container	pg/cm2	picograms per square centimeter
cc/eu	cocoons per experimental unit	pg/dm3	picograms per cubic decimeter
cc/org	cocoons per organism	pg/g	picograms per gram
cc/org/8wk	cocoons per organism per 8 weeks	pg/g TI	picograms per gram tissue
cc/org/wk	cocoons per organism per week	pg/g diet	picograms per gram diet

Code	Definition	Code	Definition
cc/sad	cocoons per surviving adult	pg/g egg	picograms per gram egg
cc/unit	cocoons per unit	pg/g wet wt	picograms per gram wet weight
cell/8 srtl cel	cells per 8 sertoli cells	pg/kg bdwt/d	picograms per kilogram body weight per day
cell/mi x10x3	cells per minute x10x3	pg/kg egg	picograms per kilogram egg
cell/mm3	cells per cubic millimeter	pg/mg TE	picograms per milligram Toxic Equivalences
cell/u.a.	cells per unit area	pg/mg org	picograms per milligram org
cell:nuclei	cells to nuclei ratio	pg/mi	picograms per minute
cells	cells	pg/ml	picograms per milliliter
cells/100 clm	cells per 100 coelomocytes	pg/org	picograms per organism
cells/1e+6 cell	cells per 1 X 10 +6 cells	pg/ul	picograms per microliter
cells/50 mg	cells per 50 milligrams	pmol	picomoles
cells/TI	cells per tissue	pmol/L	picomoles per liter
cells/area	cells per area	pmol/cell	picomoles per cell
cells/mg TI	cells per milligram tissue	pmol/egg	picomoles per egg
cells/ml	cells per milliliter	pmol/g	picomoles per gram
cells/mm cortex	cells per millimeter cortex	pmol/g bdwt	picomoles per gram body weight
cells/mm folium	cells per millimeter folium	pmol/g egg	picomoles per gram egg
cells/mm2	cells per square millimeter	pmol/g/mi	picomoles per gram per minute
cells/tubule	cells per tubule	pmol/hr/mg	picomoles per hour per milligram
cellx10x2/ul	cells x10x2 per microliter	pmol/kg egg	picomoles per kilogram egg

Code	Definition	Code	Definition
cfu/mg	colony forming units per milligram	pmol/mg	picomoles per milligram
cfu/ml	colony forming units per milliliter	pmol/mg pro	picomoles per milligram protein
chem/d	chemical per day	pmol/mg pro/h	picomoles per milligram protein per hour
clusters	clusters	pmol/mg pro/mi	picomoles per milligram protein per minute
clutches	clutches	pmol/mg/10 mi	picomoles per milligram per 10 minutes
cm	centimeters	pmol/mg/30 mi	picomoles per milligram protein per 30 minutes
cm H2O	centimeters of water	pmol/mg/d	picomoles per milligram per day
cm/cm3	centimeters per cubic centimeter	pmol/mg/h	picomoles per milligram per hour
cm/d	centimeters per day	pmol/mg/mi	picomoles per milligram per minute
cm/dm3	centimeters per cubic decimeter	pmol/mg/nmol r	picomoles per milligram per nanomol rhodopsin
cm/g bdwt/h	centimeters per gram bodyweight per hour	pmol/mi/g TI	picomoles per minute per gram tissue
cm/g soil	centimeters per gram soil	pmol/mi/mg pro	picomoles per minute per milligram protein
cm/org	centimeters per organisms	pmol/ml	picomoles per milliliter
cm/wk	centimeters per week	pmol/nl	picomoles per nanoliter
cm2	centimeters squared	pmol/nm p450/mi	picomoles per nanomol cytochrome P450 per minute
cm2/100bees	centimeters squared per 100 bees	pmol/org	picomoles per organism
cm2/kg	square centimeters per kilogram	ppb	parts per billion

Code	Definition	Code	Definition
cm2/org	square centimeters per organism	ppb H2O	parts per billion water
cm3	cubic centimeters	ppb food	parts per billion food
cm3 O2 evolved	cubic centimeters of oxygen evolved	ppb/2H/org	parts per billion per two hours per organism
cm3 O2/g/h	cubic centimeters of O2 per gram per hour	ppb/ml	parts per billion per milliliter
cm3/0.7 ha	cubic centimeters per 0.7 hectare	pphr	parts per hundred rubber
cm3/100 L	cubic centimeters per 100 liters	ppm	parts per million
cm3/4L	cubic centimeters per 4 liters	ppm H2O	parts per million water
cm3/cm3	cubic centimeters per cubic centimeters	ppm dry wt	parts per million dry weight
cm3/dm3	cubic centimeters per cubic decimeter	ppm dw fd	parts per million dry weight food
cm3/eu	cubic centimeters per experimental unit	ppm food	parts per million food
cm3/feddan	cubic centimeters per feddan (1 feddan = 1.038 acres)	ppm for 36hr	parts per million per 36 hours
cm3/ft	cubic centimeters per foot	ppm soil	parts per million soil
cm3/ft2	cubic centimeters per square foot	ppm solvent	parts per million in solvent
cm3/hL	cubic centimeters per hectoliter	ppm wet wt fd	parts per million wet weight food
cm3/ha	cubic centimeters per hectare	ppm-hour	parts per million hour
cm3/kg	cubic centimeters per kilogram	ppm/100g bdwt/d	parts per million per 100 grams body weight per day
cm3/l	cubic centimeters per liter	ppm/L	parts per million per liter
cm3/m2	cubic centimeters per cubic meter	ppm/d	parts per million per day

Code	Definition	Code	Definition
cm3/org	cubic centimeters per organism	ppm/d/kg bdwt	parts per million per day per kilogram body weight
cm3/yd	cubic centimeters per yard	ppm/eu	parts per million per experimental unit
cmol/kg	centimoles of charges/kilogram	ppm/g bdwt	parts per million per gram body weight
cmol/kg dry soil	centimoles per kilograms dry soil	ppm/gal	parts per million per gallon
cpm	counts per minute	ppm/mi	parts per million per minute
cpm 1e-4	counts per minute * 1 X 10-4	ppm/ml	parts per million per milliter
cpm x 1000	counts per minute X 1000	ppm/organi	parts per million per organism
cpm/1e+5 cells	counts per minute per 1X10+5 cells	ppmv	parts per million by volume
cpm/L	counts per minute per liter	ppmv/eu	parts per million by weight per pot
cpm/cc	counts per minute per coccoon	ppmw	parts per million by weight
cpm/g TI	counts per minute per gram tissue	ppmw H2O	parts per million by weight in water
cpm/mg	counts per minute per milligram	ppmw diet	parts per million by weight diet
cpm/mg DNA	counts per minute per milligram DNA	ppt	parts per trillion
cpm/mg RNA	counts per minute per milligram RNA	prdt/mi/mg pro	product formed per minute per milligram protein
cpm/mg UA	counts per minute per milligram uronic acid	pt	pints
cpm/mg pro	counts per minute per milligram protein	pt/100 ft2	pints per 100 square feet
cpm/ml	counts per minute per milliliter	pt/100 gal	pints per 100 gallons
cpm/org	counts per minute per organism	pt/acre	pints per acre

Code	Definition	Code	Definition
cwt/acre	hundredweights per acre	pt/gal	pints per gallon
cyc/deg	cycles per degree	ptm	parts per thousand million
d	day	q/ha	quintals per hectare
dS/m	deciSiemens per meter	qt/100 gal	quarts per 100 gallons
dead:live	dead to live organisms ratio	qt/acre	quarts per acre
degree	degree	qt/gal	quarts per gallon
divisions/cell	divisions per cell	rate/100 org	rate per 100 organisms
dm2	decimeters squared	rate/mi	rate per minute
dm3/ha	cubic decimeter per hectare	rev	revolutions
dn(Cyprus)	dunam, dunum or donum (Cyprus = 1338 square meters)	rev/5 h	revolutions per 5 hours
dn(Iraq)	dunam, dunum or donum (Iraq = 2500 square meters)	rgv	relative gray value
dn(Std)	dunam, dunum or donum (Standard metric = 1000 square meters)	ro:so	root to shoot ratio
dpm	disintegrations per minute	rpm	revolutions per minute
dpm 1e-3/ml	disintegrations per minute * 1 X 10-3 per milliliter	s	seconds
dpm treat:cntl	ratio of disintegrations per minute treated to control	s/12 rpm	seconds per 12 revolutions per minute
dpm/167 mg TI	disintegrations per minute per 167 milligrams tissue	s/16 rpm	seconds per 16 revolutions per minute
dpm/800g soil	disintegrations per 800 grams soil	s/8 rpm	seconds per 8 revolutions per minute
dpm/EU	disintegrations per minute per experimental unit	s/g	seconds per gram

Code	Definition	Code	Definition
dpm/g	disintegrations per minute per gram of tissue	s/h	seconds per hour
dpm/g*100	disintegrations per minute per gram*100	sd/org/d	seeds per organism per day
dpm/mg	disintegrations per minute per milligram	sessions	sessions
dpm/mg FA	disintegrations per minute per milligram fatty acid	sgth:thik	Strength to thickness ratio
dpm/mg GH	disintegrations per minute per milligram growth hormone	sgth:wght	Strength to weight ratio
dpm/mg GH*100	disintegrations per minute per milligram growth hormone*100	sigma u/100ml	sigma units per 100 milliliters
dpm/mg pro	disintegrations per minute per milligram protein	so/ft2	shoots per square foot
dpm/ml	disintegrations per minute per milliliter	so:gr	ratio plant shoot to grain
dpm/n	disintegrations per minute per N	so:ro	shoot to root ratio
e/100hd	eggs per 100 hen days	spec gravity	specific gravity
e/hd	eggs per hen day	species	species
ea/eu	ears per experimental unit	spines/u area	spines per unit area
egg cap/org	egg capsules per organism	spots/le	spots per leaf
egg/100 ad	eggs per 100 adults	str:gr	plant straw to grain ratio
eggs	egg(s)	succ br	successful broods
eggs/10 wks	eggs per 10 weeks	succ br/fm	successful broods per female
eggs/8 wks	eggs per 8 weeks	t/ha gr/t/ha gr	tons per hectare grain over tons per hectare grains plus straw [
eggs/BDAY	eggs per bird-day	taxa	taxa

Code	Definition	Code	Definition
eggs/d	eggs per day	tillers/m2	tillers per square meter
eggs/fm	eggs per female	tons	tons
eggs/fm/8 wk	eggs per female per 8 weeks	tons/acre	tons per acre
eggs/fm/d	eggs per female per day	tons/ha	tons per hectare
eggs/fm/wk	eggs per female per week	top:root	ratio plant top to roots
eggs/org	eggs per organism	treated:cntl	ratio treated to control
eggs/org/d	eggs per organism per day	trials	trials
eggs/org/wk	eggs per organism per week	tsp/mound	teaspoons per mound
eggs/pair	eggs per pair	u act	unit activity (an increase in absorbance at 555 nm of 0.100, wit
eggs/raft	eggs per raft	u act/h	unit activity per hour
em	embryos	u-atoms/egg	microatoms per egg
em/FM	embryos per female	u/TI	units per tissue
enz act	enzyme activity or enzyme activity unit	u/co2/50mg/10mi	units per carbon dioxide per 50 milligrams per 10 minutes
enz act/mg	enzyme activity per milligram	u/d	units per day
eq/l	equivalents per liter	u/g	units per gram
eu	enzyme unit	u/mg N2	units per mg N2
failures	failures	u/mg TI	units per milligram tissue
fet	fetuses	u2	square microns
fetuses/litter	fetuses per litter	u2/300,000 u2	square micrometers per 300,000 micrometers squared
fg	femtogram	u3	cubic microns
fg/org	femtograms per organism	uBq	microBecquerels

Code	Definition	Code	Definition
final:initial	ratio of initial parameter to final parameter	uCI/g org	microcuries per gram organism
fl	femtoliters	uCi	microCuries
fl oz mat/cwt	fluid ounces material per hundredweight	uCi/100 g org	microCuries per 100 grams organism
fl oz/10 gal	fluid ounces per 10 gallons	uCi/3.6mg	microCuries per 3.6 milligrams
fl oz/100 gal	fluid ounces per 100 gallons	uCi/30mg	microCuries per 30 milligrams
fl oz/1000 ft	fluid ounces per 1000 feet	uCi/L	microCuries per liter
fl oz/1000 ft2	fluid ounces per 1000 square feet	uCi/g	microCuries per gram
fl oz/50 gal/acre	fluid ounces per 50 gallons per acre	uCi/g soil	microcuries per gram soil
fl oz/acre	fluid ounces per acre	uCi/kg	microCuries per kilogram
fl oz/cwt	fluid ounces per hundredweight	uCi/mg	microCuries per milligram
fl oz/in dbh	fluid ounces per inches diameter at breast height	uCi/ml	microCuries per millliliter
fledge/pair	fledglings/pair or young fledged/pair	uCi/nmol	microCuries per nanomoles
fmol	femtomol	uCi/org	microCuries per organism
fmol/mg	femtomol per milligram	uCi/ug	microCuries per micrograms
fmol/mg pro	femtomol per milligram protein	uCi/ul	microCuries per microliter
fr	frames (bees)	uIU/ml	microInternational units per milliliter
g	grams	uL/100 L	microliters per 100 liters
g GAIN/g fd/d	grams weight gained per gram food per day	uM	microMolar

Code	Definition	Code	Definition
g GAIN/kg fd	grams weight gained per kilogram food	uM B-naph/h/mgP	micromoles beta-naphthalene per hour per milligram protein
g H2O/dm2/h	grams H2O per squared decameter per hour	uM B-naph/h/ml	micromoles beta-naphthalene per hour per milliliter
g TI/100 g bdwt	grams tissue per 100 grams bodyweight	uM BAPNA/mi/mgP	micromoles of BAPNA inhibited per minute per milligram protein
g d/m3	grams day per cubic meter	uM BAPNA/mi/ml	micromoles of BAPNA inhibited per minute per milliliter
g food	grams food	uM BTEE/mi/mgP	micromoles BTEE per minute per milligram protein
g h/m3	grams hours per cubic meter	uM P/g	micromoles Phosphorous per gram
g%	gram percent	uM SAPNA/mi/mgP	micromoles of SAPNA inhibited per minute per milligram protein
g% w/v	gram percent on a weight per volume basis	uM SAPNA/mi/ml	micromoles of SAPNA inhibited per minute per milliliter
g/0.25 acre	grams per 0.25 acres	uM TAME/mi/mgP	micromoles TAME per minute per milligram protein
g/0.4 ha	grams per 0.4 hectare	uM/100g	microMolar per 100 grams
g/0.5 m2	grams per 0.5 meters squared	uM/L	microMolar per liter
g/1.2 kg soil	grams per 1.2 kilograms soil	uM/TI	micromoles per tissue
g/1.4 kg soil	grams per 1.4 kilograms soil	uM/cm3	microMolar per cubed centimeter
g/1.6 kg soil	grams per 1.6 kilograms soil	uM/h	micromoles per hour
g/1.8 kg soil	grams per 1.8 kilograms soil	uM/h/l RBC	micromoles per hour per liter red blood cells
g/1.8kg sd	grams per 1.8 kilograms seed	uM/h/mg pro	micromolar per hour per milligram protein

Code	Definition	Code	Definition
g/10 L	grams per 10 liters	uM/kg	microMolar per kilogram
g/10 L soil	grams per 10 liters soil	uM/kg wght	micromoles per kilogram weight
g/10 acre	grams per 10 acres	uM/kg/mi	microMolar per kilogram per minute
g/10 ft	grams per 10 feet	uM/mg pro	microMolar per milligram protein
g/10 m	grams per 10 meters	uM/min/g	microMolar per minute per gram
g/10.2 L	grams per 10.2 liters	uM/ml	micromolar per milliliter
g/100 L	grams per 100 liters	uS/cm	micro Siemens per centimeter
g/100 cm3	grams per 100 cubic centimeters	uU/ml	microunits per milliliter
g/100 g sd	grams per 100 grams seed	uV	microVolts
g/100 gal	grams per 100 gallons	ueq/L	microequivalents per liter
g/100 kg sd	grams per 100 kilograms seed	ueq/g	microequivalents per gram
g/100 le	grams per 100 leaves	ueq/g pro/mi	microatom equivalents per gram protein per minute
g/100 m	grams per 100 meters	ug	micrograms
g/100 m2	grams per 100 square meters	ug %	micrograms percent
g/100 sd	grams per 100 seeds	ug CO2/g dry soil/h	micrograms carbon dioxide per grams dry soil per hour
g/100 stl	grams per 100 stolons	ug GHA/1e+6 c/h	micrograms gamma-glutamylhydroximate per 1X10 +6 cells per hour
g/1000 L	grams per 1000 liters	ug Hg203/g TI	micrograms Hg203 per gram tissue
g/1000 ft	grams per 1000 feet	ug N/g	micrograms nitrogen per gram

Code	Definition	Code	Definition
g/1000 ft3	grams per 1000 cubic feet	ug NANA/TI	micrograms N-acetyl neuraminic acid per tissue
g/1000 g	grams per 1000 grams	ug O/g pro/mi	micrograms oxygen per gram protein per minute
g/1000 g food	grams per 1000 grams food	ug PAP/g/20 mi	micrograms peroxidase-anti-peroxidase (PAP) per gram per 20 min
g/1000 kg food	grams per 1000 kilograms food	ug PAP/g/30 mi	micrograms peroxidase-anti-peroxidase (PAP) per gram per 30 min
g/1000 lb	grams per 1000 pounds	ug POH/mg pro/m	micrograms phenol per milligrams protein per minute
g/1000 org	grams per 1000 organisms	ug Pi/mg	micrograms Pi/milligram
g/1000gr	grams per 1000 grains	ug Pi/mg MIT	micrograms Pi/milligram mitochondria
g/100g	grams per 100 grams	ug Pi/mg TI	micrograms Pi/milligram tissue
g/100g BW	grams per 100 grams body weight	ug TE/kg	micrograms Toxic Equivalent per kilogram
g/100g BW/d	grams per 100 grams body weight per day	ug TEQ/kg bw/wk	micrograms Toxic Equivalency Concentration per kg bdwt per week
g/100g bdwt/h	grams per 100 grams per bodyweight/hour	ug TTC/mg pro/h	micrograms triphenyl tetrazolium chloride reduced per milligram
g/100g diet	grams per 100 grams diet	ug chl/cm2	micrograms chlorophyll per square centimeter
g/100g org	grams per 100 grams organism	ug chl/mg leaf	micrograms chlorophyll per milligram of leaf
g/100kg	grams per 100 kilograms	ug dry fd/d	micrograms dry food per day

Code	Definition	Code	Definition
g/100kg org	grams per 100 kilograms organism	ug enz/g/h	microgram enzyme per gram per hour
g/100ml	grams per 100 milliliters	ug frmzn/100 g	micrograms formazan formed per 100 grams tissue
g/10g diet	grams per 10 grams diet	ug pro ld/ne	ug proteolipid per nerve pair
g/13.5 L	grams per 13.5 liters	ug%	microgram percent
g/13125 ft2	grams per 13125 square feet	ug-atoms/L	micrograms atoms per liter
g/15 cm	grams per 15 centimeters	ug/0.1 ml/d/org	micrograms per 0.1 milliliter per day per organism
g/16 L	grams per 16 liters	ug/0.5 g	micrograms per 0.5 grams
g/1600 org	grams per 1600 organisms	ug/10 L	micrograms per 10 liters
g/189.25 L	grams per 189.25 liters	ug/10 g bdwt	micrograms per 10 grams body weight
g/2 L	grams per 2 liters	ug/100 g bdwt	micrograms per 100 grams body weight
g/2.25 m2	grams per 2.25 square meters	ug/100 g bdwt/d	micrograms per 100 grams body weight per day
g/200 m2	grams per 200 square meters	ug/100 mg	micrograms per 100 milligrams
g/200 ml	grams per 200 milliliters	ug/100 mg TI	micrograms per 100 milligram tissue
g/250 L	grams per 250 liters	ug/100g	micrograms per 100 grams
g/2500cm2	grams per 2500 centimeters squared	ug/100g org/d	micrograms per 100 grams organism per day
g/27 kg sd	grams per 27 kilograms seed	ug/100g/d	micrograms per 100 grams per day
g/3 kg seed	grams per 3 kilograms seed	ug/100mg/30mi	micrograms per 100 milligrams per 30 minutes

Code	Definition	Code	Definition
g/3.79 L	grams per 3.79 liters	ug/100mg/h	micrograms per 100 milligrams per hour
g/30.5 m	grams per 30.5 meters	ug/100ml	micrograms per 100 milliliters
g/300 g seed	grams per 300 grams seed	ug/100ml RBC	micrograms per 100 milliliters red blood cells
g/305 m	grams per 305 meters	ug/2 org/d	micrograms per 2 organisms per day
g/37.9L/0.1 ha	grams per 37.9 liters per 0.1 hectare	ug/2.5 ul/h	micrograms per 2.5 microliters per hour
g/379 L	grams per 379 liters	ug/200mg/30mi	micrograms per 200 milligrams per 30 minutes
g/4 d	grams per 4 days	ug/24h	micrograms per 24 hours
g/400m	grams per 400 meters	ug/24h/org	micrograms per 24 hours per organism
g/45.4 kg bdwt/d	grams per 45.4 kilograms body weight per day	ug/250 g bdwt	micrograms per 250 grams body weight
g/45.4 kg seed	grams per 45.4 kilograms seed	ug/3.5L	micrograms per 3.5 liters
g/454 g seed	grams per 454 grams seed	ug/300 g bdwt	micrograms per 300 grams body weight
g/4719 cm3 soil	grams per 4719 cubic centimeters soil	ug/4 d	micrograms per 4 days
g/4719 m3 soil	grams per 4719 cubic meters soil	ug/50 g bdwt	micrograms per 50 grams body weight
g/5 kg soil	grams per 5 kilograms soil	ug/50 ml	micrograms per 50 milliliters
g/5 m2	grams per 5 meters squared	ug/500g	micrograms per 500 grams
g/50 ml	grams per 50 milliliters	ug/50ul	micrograms per 50 microliters
g/50 org	grams per 50 organisms	ug/72h	micrograms per 72 hours
g/50 seeds	grams per 50 seeds	ug/L	micrograms per liter

Code	Definition	Code	Definition
g/500 g diet	grams per 500 grams diet	ug/L fd	micrograms per liter food
g/500 ml	grams per 500 milliliters	ug/L/d	micrograms per liter per day
g/60 cm	grams per 60 centimeters	ug/L/hr	microgram per liter per hour
g/7 kg	grams per 7 kilograms	ug/TI	micrograms per tissue
g/70 d	grams per 70 days	ug/bee	micrograms per bee
g/946 ml	grams per 946 milliliters	ug/branch	micrograms per branch
g/BDAY	grams per bird-day	ug/cell	micrograms per cell
g/FM	grams per female	ug/cm2	micrograms per square centimeter
g/L	grams per liter	ug/cm2 lf	micrograms per square centimeter leaf
g/L soil	grams per liter soil	ug/cm2/d	micrograms per square centimeter per day
g/LE	grams per leaf	ug/cm3	micrograms per cubic centimeter
g/LIT	grams per litter	ug/d	micrograms per day
g/ML	grams per male	ug/d/org	micrograms per day per organism
g/acre	grams per acre	ug/disk	micrograms per disk
g/bdwt e0.75	grams per body weight * 1e0.75	ug/dl	micrograms per deciliter
g/bee	grams per bee	ug/dm3	micrograms per cubic decimeter
g/bushel	grams per bushel	ug/egg	micrograms per egg
g/cc	grams per cocoon	ug/em	micrograms per embryo
g/cm	grams per centimeter	ug/eu	micrograms per experimental unit
g/cm dbh	grams per centimeter diameter at breast height	ug/eu/d	micrograms per experimental unit per day
g/cm2	grams per square centimeter	ug/fish	micrograms per fish

Code	Definition	Code	Definition
g/cm3	grams per cubic centimeter	ug/g	micrograms per gram
g/d	grams per day	ug/g CREA	micrograms per gram creatinine
g/d/100 g bdwt	grams per day per 100 grams body weight	ug/g OC	micrograms per gram Organic Carbon
g/d/100kg org	grams per day per 100 kilograms organism	ug/g TI	micrograms per gram tissue
g/d/org	grams per day per organism	ug/g agar	micrograms per gram agar
g/d/wght	grams per day per weight	ug/g ash	micrograms per gram ash
g/dl	grams per deciliter	ug/g bdwt	micrograms per gram body weight
g/dm3	grams per cubic decimeter	ug/g bdwt/d	micrograms per gram body weight per day
g/dn(Std)	grams per dunam, dunum or donum (Std 1000m2)	ug/g bdwt/h	micrograms per gram body weight per hour
g/eu	grams per experimental unit	ug/g bdwt/wk	micrograms per gram body weight per week
g/eu/d	gramss per experimental unit per day	ug/g diet	micrograms per gram diet
g/feddan	grams per feddan (1 feddan = 1.038 acres)	ug/g dry cmpst	micrograms per gram dry compost
g/fish	grams per fish	ug/g dry fd	micrograms per gram dry food
g/fruit	grams per fruit	ug/g dry fd/d	micrograms per gram dry food per day
g/ft org	grams per foot of organism	ug/g dry soil	micrograms per gram dry soil
g/ft2	grams per square foot	ug/g dry soil/h	micrograms per gram dry soil per hour
g/ft3	grams per cubic foot	ug/g dry wt	micrograms per gram dry weight
g/g TI	grams per gram tissue	ug/g egg	micrograms per gram egg

Code	Definition	Code	Definition
g/g bdwt	grams per gram body weight	ug/g eu	micrograms per gram experimental unit
g/g bdwt/d	grams per gram body weight per day	ug/g food	micrograms per gram food
g/g dry humus	grams per gram dry humus	ug/g lipid diet	micrograms per gram lipid in diet
g/g fd	grams per gram food	ug/g npro	micrograms per gram nonprotein
g/g org	grams per gram organism	ug/g om	micrograms per gram organic matter
g/gal	grams per gallon	ug/g org	micrograms per gram organism
g/h	grams per hour	ug/g org x 10+2	micrograms per gram organism multiplied by 10+2
g/hL	grams per hectoliter	ug/g org x 1E2	micrograms per gram organism x 1E2
g/ha	grams per hectare	ug/g org/d	micrograms per gram organism per day
g/hd	grams per hen day	ug/g org/wk	micrograms per gram organism per week
g/jv	grams per juvenile	ug/g pro	micrograms per gram protein
g/kg	grams per kilogram	ug/g pro/mi	micrograms per gram protein per minute
g/kg bdwt	grams per kilogram body weight	ug/g soil	micrograms per gram soil
g/kg bdwt/d	grams per kilogram body weight per day	ug/g wet fd/d	micrograms per gram wet food per day
g/kg bdwt/h	grams per kilogram body weight per hour	ug/g wet wt	micrograms per gram wet weight
g/kg dry fd	grams per kilogram dry food	ug/g wet wt diet	micrograms per gram wet weight diet
g/kg fd	grams per kilogram food	ug/g/30 min	micrograms per gram per 30 minutes
g/kg sd	grams per kilograms seed	ug/g/d	micrograms per gram per day

Code	Definition	Code	Definition
g/kg soil	grams per kilogram soil	ug/g/kg bdwt	micrograms per gram per kilogram body weight
g/kg*e0.75 bdwt	grams per kg * 1e0.75 body weight	ug/g/wk	micrograms per gram per week
g/kg/d	grams per kilogram per day	ug/h	micrograms per hour
g/km	grams per kilometer	ug/h/100 g	micrograms per hour per 100 grams
g/l/m2	grams per liter per square meter	ug/h/100 ml	micrograms per hour per 100 milliliters
g/lb seed	grams per pound of seed	ug/kg	micrograms per kilogram
g/linear ft	grams per linear foot	ug/kg LD	micrograms per kilogram lipid
g/m	grams per meter	ug/kg TI	micrograms per kilograms tissue
g/m2	grams per square meter	ug/kg bdwt	micrograms per kilogram body weight
g/m3	grams per cubic meter	ug/kg bdwt/d	micrograms per kilogram body weight per day
g/ml	grams per milliliter	ug/kg bdwt/h	micrograms per kilogram body weight per hour
g/ml/100 L	grams per milliliter per 100 liters	ug/kg bdwt/wk	micrograms per kilogram body weight per week
g/ml/eu	grams per milliliter per experimental unit	ug/kg dry soil	micrograms per kilogram dry soil
g/org	grams per organism	ug/kg dry wt org	micrograms per kilogram dry weight organism
g/org/42 d	grams per organism per 42 days	ug/kg egg	micrograms per kilogram egg
g/org/d	grams per organism per day	ug/kg fd	microgram per kilogram food
g/org/eu	grams per organism per experimental unit	ug/kg org	micrograms per kilogram organism

Code	Definition	Code	Definition
g/org/wk	grams per organism per week	ug/kg org/d	micrograms per kilogram organism per day
g/org/yr	grams per organism per year	ug/kg soil	micrograms per kilogram soil
g/plot	grams per plot	ug/kg/d	micrograms per kilogram per day
g/quadrant	grams per quadrant	ug/kg/mi	micrograms per kilogram per minute
g/sample	grams per sample	ug/kg/wk	micrograms per kilogram per week
g/shell	grams per shell	ug/lf	micrograms per leaf
g/ton	grams per ton	ug/m2	micrograms per square meter
g/ug	grams per microgram	ug/m3	micrograms per cubic meter
g/wk	grams per week	ug/mg	micrograms per milligram
g/yd2	grams per square yard	ug/mg MIT	micrograms per milligram mitochondria
g/yr	grams per year	ug/mg TI	micrograms per milligram tissue
gal	gallons	ug/mg bdwt	micrograms per milligram body weight
gal/0.5 rod2	gallons per 0.5 square rods	ug/mg food	micrograms per milligram food
gal/100 gal	gallons per 100 gallons	ug/mg org	micrograms per milligram organism
gal/ac f	gallons per acre foot	ug/mg pro	micrograms per milligram protein
gal/acre	gallons per acre	ug/mg pro/hr	micrograms per milligram protein per hour
gal/cwt	gallons per 100 weight	ug/mi	micrograms per minute
gal/gal	gallon per gallon	ug/mi/mg pro	micrograms per minute per milligram protein
gamma/day	gamma/day (Von Bertalanffy growth)	ug/min/ml	micrograms per minute per milliliter

Code	Definition	Code	Definition
gamma/g TI	gamma counts per gram tissue	ug/ml	micrograms per milliliter
gg	gamma gamma	ug/ml H2O	micrograms per milliliter water
gila:neruon	gila to neuron ratio	ug/mm3	micrograms per cubic millimeter
grade	grade	ug/org	micrograms per organism
grain/panicle	grains per panicle	ug/org dry wt	micrograms per organism dry weight
granules	granules	ug/org/d	micrograms per organism per day
granules/kg bwt	granules per kilogram body weight	ug/org/wk	micrograms per organism per week
h	hour	ug/sample	micrograms per sample
hatchability	hatchability	ug/tank/wk	micrograms per tank per week
hsk:gr	ratio plant husk to grain	ug/ul	micrograms per microliter
hz	hertz	ul	microliters
hz/s	hertz per second	ul Eq/ml	microliters equivalents per milliliter
implants	implants	ul O2/g/h	microliters O2 per gram per hour
in	inches	ul O2/hr/g	microliters oxygen per hour per gram
in2	inches squared	ul O2/mi/g	microliters oxygen per minute per gram
inclusion	internuclear inclusion body	ul/0.5 m2	microliters per 0.5 square meters
index	index	ul/100 g bdwt	microliters per 100 grams body weight
jv	juveniles	ul/100ml	microliter per 100 milliliter
jv/ad	juveniles per adult	ul/200 ml	microliters per 200 milliliters

Code	Definition	Code	Definition
jv/cc	juveniles per cocoon	ul/20ml	microliter per 20 milliliter
jv/eu	juveniles per experimental unit	ul/300 ml	microliters per 300 milliliters
jv/fm	juveniles per female	ul/720 ml	microliter per 720 milliliter
jv/ftcc	juveniles per fertile cocoon	ul/L	microliters per liter
jv/lit	juveniles per litter	ul/L/24h	microliters per liter per 24 hours
jv/mated fm	juvenile per mated female	ul/L/7 h	microliters per liter per 7 hours
jv/nest	juveniles per nest	ul/L/9 h	microliters per liter per 9 hours
jv/org	juveniles per organism	ul/L/h	microliters per liter per hour
jv/org/wk	juveniles per organisms per week	ul/beat	microliters per beat
k2/d	elimination rate constant 2 per day	ul/beat/kg	microliters per beat per kilogram
kBq	kiloBecquerels	ul/cm2	microliter per square centimeter
kBq/L	kiloBecquerels per liter	ul/d	microliters per day
kBq/dm3	kiloBecquerels per cubic decimeter	ul/egg	microliter per egg
kBq/eu	KiloBecquerels per experimental unit	ul/eu	microliters per experimental unit
kBq/kg soil	kiloBecquerels per kilogram soil	ul/g	microliter per gram
kBq/ml	kiloBecquerels per milliliter	ul/g bdwt	microliter per gram body weight
kJ/d/org	kiloJoules per day per organism	ul/g dry soil	microliters per gram dry soil
kJ/kg bdwt	kiloJoules per kilogram body weight	ul/g/d	microliters per gram per day
kJ/kg bdwt/d	kiloJoules per kilogram body weight per day	ul/g/h	microliters per gram per hour

Code	Definition	Code	Definition
ka/d	elimination rate constant a per day	ul/kg	microliter per kilogram
kcal	kilocalories	ul/kg bdwt	microliter per kilogram body weight
kcal/100g	kilocalories per 100 grams	ul/kg fd	microliters per kilogram food
kcal/d	kilocalories per day	ul/m2	microliters per square meter
kg	kilograms	ul/mg	microliters per milligram
kg conc/d	kilograms of concentrate per day	ul/ml	microliter per milliliter
kg plt/ha	kilograms pellet per hectare	ul/ml fd	microliters per milliliter food
kg silage/d	kilograms of silage per day	ul/org	microliter per organism
kg/0.5 m2	kilograms per 0.5 square meters	ul3	cubic microliters
kg/10 ac	kilograms per 10 acres	ulCO2/50mgTI/10	microliters carbon dioxide per 50 milligrams tissue per 10 minut
kg/100 m2	kilograms per 100 square meters	um	micrometers
kg/11 meters	kilograms per 11 meters	um/s	micrometers per second
kg/3.78 L	kilograms per 3.78 liters	um/um2	micrometers per square micrometer
kg/50 m	kilograms per 50 meters	um2	square micrometers
kg/500 m2	kilograms per 500 square meters	um3	cubic micrometers
kg/9.3 m2	kilograms per 9.3 square meters	um3/cell	cubic micrometers per cell
kg/9.9 m2	kilograms per 9.9 square meters	umol	micromoles
kg/L	kilograms per liter	umol C2H4/g/h	micromoles of ethylene produced per gram per hour

Code	Definition	Code	Definition
kg/ac	kilograms per acre	umol C2H4/org/h	micromoles of ethylene produced per organism per hour
kg/cwt sd	kilograms per hundredweight seed	umol CO2/g ch/s	micromoles carbon dioxide per gram chlorophyll per second
kg/d	kilograms per day	umol CO2/g/s	micromoles CO2 per gram per second
kg/eu	kilograms per experimental unit	umol CO2/m2/s	micromoles CO2 per square meter per second
kg/feddan	kilograms per feddan (1 feddan = 1.038 acres)	umol GH/mgpro/m	micromoles reduced glutathione per milligrams protein per minute
kg/hL	kilograms per hektoliter (hectoliter)	umol HA/mg pro	micromoles hippuric acid per milligram protein
kg/ha	kilograms per hectare	umol NADPH/mg P	micromoles NADPH per milligram protein per minute
kg/ha/yr	kilograms per hectare per year	umol P/g/20 mi	micromol phosphorus per gram per 20 minutes
kg/m	kilograms per meter	umol P/g/h	micromoles phosphorus per gram per hour
kg/m2	kilograms per square meter	umol P/mg pro/h	micromoles phosphorus per milligram protein per hour
kg/m3	kilograms per cubic meter	umol Pbg/h/g	micromoles of porphobilinogen per hour per gram tissue
kg/mi2/mo	kilograms per square mile per month	umol Pi/mgp/30m	micromoles Pi per milligram protein per 30 minutes
kg/mm	kilograms per millimeter	umol Pi/mgpro/h	micromoles Pi per milligram protein per hour

Code	Definition	Code	Definition
kg/mu	kilograms per mu	umol pyv mg p/h	micromoles pyruvate per milligram protein per hour
kg/org	kilograms per organism	umol/100 g	micromoles per 100 grams
kg/org/d	kilograms per organism per day	umol/100 ml	micromoles per 100 milliliters
kg/ton tubers	kilograms per ton of tubers	umol/100g org	micromoles per 100 grams organism
kg/wk	kilograms per week	umol/10g/h	micromoles per 10 grams per hour
kmol/m3	kilomoles per cubic meter	umol/10mg/h	micromoles per 10 milligrams per hour
l/24 h	liters per 24 hours	umol/L	micromoles per liter
l/hl	liters per hectoliter	umol/TI	micromoles per tissue
l/l	liter per liter	umol/cm2	micromoles per square centimeter
l/mi	liter per minute	umol/dl/h	micromoles per decaliter per hour
l/s	liter per second	umol/dm3	micromoles per cubic decimeter
lamellae/axon	lamellae per axon	umol/eu	micromoles per experimental unit
layers	layers	umol/g	micromoles per gram
lb	pounds	umol/g LD	micromoles per gram lipid
lb/100 ft2	pounds per 100 square feet	umol/g TI	micromoles per gram tissue
lb/100 gal	pounds per 100 gallons	umol/g TI/h	micromoles per gram tissue per hour
lb/100 gal/acre	pounds per 100 gallons per acre	umol/g ash	micromoles per gram ash
lb/100 lb sd	pounds per 100 pounds seed	umol/g diet	micromoles per gram diet
lb/1000 ft2	pounds per 1000 square feet	umol/g dry wt fd	micromoles per gram dry weight food
lb/1000 ft3	pounds per 1000 cubic feet	umol/g org	micromoles per gram organism

Code	Definition	Code	Definition
lb/11 gal/acre	pound per 11 gallons per acre	umol/g pro/h	micromoles per gram protein per hour
lb/40 gal	pounds per 40 gallons	umol/g soil	micromoles per gram soil
lb/5 gal/acre	pounds per 5 gallons per acre	umol/g wet wt	micromoles per gram wet weight
lb/90 ft2	pounds per 90 square feet	umol/g/15 mi	micromoles per gram per 15 minutes
lb/ac ft	pounds per acre foot	umol/g/30 mi	micromoles per gram per 30 minutes
lb/acre	pounds per acre	umol/g/h	micromoles per gram per hour
lb/cwt sd	pounds per hundred weight seed	umol/g/mi	micromoles per gram per minute
lb/d	pound per day	umol/h/TI	micromoles per hour per tissue
lb/eu	ponuds per experimental unit	umol/h/g TI	micromoles per hour per gram tissue
lb/ft2	pounds per square feet	umol/h/g pro	micromols per hour per grams protein
lb/ft3	pounds per cubic foot	umol/h/mg TI	micromols per hour per milligram tissue
lb/gal	pounds per gallon	umol/h/mg pro	micromoles per hour per milligram protein
lb/gal/acre	pounds per gallon per acre	umol/kg	micromoles per kilogram
lb/org/d	pounds per organism per day	umol/kg bdwt	micromoles per kilogram body weight
lb/plot	pounds per plot	umol/kg dry soil	micromoles per kilogram dry soil
lb/rod2	pounds per square rod	umol/kg egg	micromoles per kilogram egg
lbs ae/ac	pounds acid equivalent per acre	umol/kg media	micromoles per kilogram media
lf prog/lf intl	ratio of live females per live females initial	umol/kg org	micromoles per kilogram organism
lit	litters	umol/kg soil	micromoles per kilogram soil

Code	Definition	Code	Definition
lit/pr	litters per pair	umol/kg/d	micromoles per kilogram per day
litter %	litter percent	umol/kg/h	micromole per kilogram per hour
lm prog/lm intl	ratio of live males per live males initial	umol/kg/mi	micromoles per kilogram per minute
ln(Wf/Wi)	natural log(mean survivor weight/mean initial weight)	umol/l RBC/mi	micromoles per liter red blood cells per minute
log 10 ug/g org	log 10 micrograms per gram organism	umol/mg pro	micromoles per mg protein
log rel	log relative activity/intensity	umol/mg pro/h	micromoles per mg protein per hour
log s	log time in seconds	umol/mg pro/mi	micromoles per mg protein per minute
log2	log squared	umol/mg/15 mi	micromol per milligram per 15 minutes
log2 titers	log2 titers	umol/mg/h	micromoles per milligram per hour
lprog/lprog itl	ratio of live progeny per live progeny initial	umol/mg/mi	micromoles per milligram per minute
m enz act/mg	millienzyme activity per milligram	umol/mgpro/20mi	micromoles per mg protein per 20 minutes
m/m	mass per mass	umol/mgpro/30mi	micromoles per mg protein per 30 minutes
m/s	meters per second	umol/mi	micromoles per minute
m3	cubic meters	umol/mi/g	micromoles per minute per gram
mBq	milliBecquerels	umol/mi/g TI	micromoles per minute per gram of tissue
mBq/ml	milliBecquerels per milliliter	umol/mi/l	micromoles per minute per liter
mCi	milliCuries	umol/mi/mg	micromoles per minute per milligram
mCi mg	milliCuries milligram	umol/mi/mg pro	micromoles per minute per mg protein
mCi/kg	microCurie per kilogram	umol/mi/ml	micromoles per minute per milliliter

Code	Definition	Code	Definition
mCi/mg	milliCuries per milligram	umol/ml	micromoles per milliliter
mCi/ml	milliCuries per milliliter	umol/ml/h	micromole per milliliter per hour
mCi/mmol	milliCuries per millimoles	umol/ml/mi	micromoles per milliliter per minute
mIU/kg bdwt/h	milliInternational Units per kilogram body weight per hour	umol/mol	micromoles per mole
mIU/kg/h	milliInternational Units per kilogram per hour	umol/mol C	micromoles per mole Carbon
mM	milliMolar (millimoles per liter)	umol/org	micromoles per organism
mM/kg	millimolar per kilogram	umolASCA/mg pro	micromols ascorbic acid per milligram protein
mN	millinormal	umolNH3/1e+6c/h	micromoles NH3 per 1X10+6 cells per hour
mOsm	milliosmoles	umoles/l agar	micromoles per liter agar
mOsm/kg	milliosmoles per kilogram	unit/mg pro/mi	enzyme unit per milligram protein per minute
mS/cm	milli Siemens per centimeter	units	units
mU	International milliunits (nmol substrate transformed/min/ml)	units/g diet	units per gram diet
mU/24 h	milliUnits per 24 hours	units/l	units per liter
mU/24 h/kg	milliunit per 24 hours per kilogram	units/mg	units per milligram
mU/d	microunits per day	units/mg pro	units per milligram protein
mU/g	milliUnits per gram organism	units/ml	units per milliliter
mU/mg pro	microUnits per milligram protein	units/ml RBC	units per milliliter red blood cells
mU/ml	milliunit per milliliter	v/v	volume per volume

Code	Definition	Code	Definition
mU/org	milliunit per organism	wght/lit	weight per litter
		wk	Week

RESULTS CODES

Endpoint

Code	Definition	Code	Definition
--	Unspecified	IC40	Inhibition concentration to 40% of test organisms
ATCN	Asymptotic threshold concentration	IC50	Inhibition concentration to 50% of test organisms
BAF	Bioaccumulation factor	IC63	Inhibition concentration to 63% of test organisms
BCF	Bioconcentration factor	IC75	Inhibition concentration to 75% of test organisms
BCFD	Bioconcentration factor calculated using dry weight tissue conc	IC78	Inhibition concentration to 78% of test organisms
BMC02.5	Benchmark concentration at 2.5% level of response above background	IC80	Inhibition concentration to 80% of test organisms
BMC04	Benchmark concentration at 4% level of response above background	IC85	Inhibition concentration to 85% of test organisms
BMC05	Benchmark concentration at 5% level of response above background	IC90	Inhibition concentration to 90% of test organisms
BMC06	Benchmark concentration at 6% level of response above background	IC95	Inhibition concentration to 95% of test organisms
BMC08	Benchmark concentration at 8% level of response above background	IC99	Inhibition concentration to 99% of test organisms
BMC10	Benchmark concentration at 10% level of response above background	ID10	Inhibition dose to 10% of test organisms
BMC11	Benchmark concentration at 11% level of response above background	ID30	Inhibition dose to 30% of test organisms
BMC20	Benchmark concentration at 20% level of response above background	ID50	Inhibition dose to 50% of test organisms
BMC50	Benchmark concentration at 50% level of response above background	LC0	Lethal concentration to 0% of test organisms
BMD02.5	Benchmark dose at 2.5% level of response above background	LC0*	Lethal concentration to 0% of test organisms
BMD05	Benchmark dose at 5% level of response above background	LC0.01	Lethal concentration to 0.01% of test organisms
BMD10	Benchmark dose at 10% level of response above background	LC0.1	Lethal concentration to 0.1% of test organisms

Code	Definition	Code	Definition
BMD50	Benchmark dose at 50% level of response above background	LC01	Lethal concentration to 1% of test organisms
BMRS10	Benchmark residue at 10% level of response above background	LC05	Lethal concentration to 5% of test organisms
EC0	Effective concentration to 0% of test organisms	LC08	Lethal concentration to 8% of test organisms
EC0.01	Effective concentration to 0.01% of test organisms	LC10	Lethal concentration to 10% of test organisms
EC0.1	Effective concentration to 0.1% of test organisms	LC10*	Lethal concentration to 10% of test organisms
EC01	Effective concentration to 1% of test organisms	LC100	Lethal concentration to 100% of test organisms
EC02	Effective concentration to 2% of test organisms	LC100*	Lethal concentration to 100% of test organisms
EC03	Effective concentration to 3% of test organisms	LC15	Lethal concentration to 15% of test organisms
EC04	Effective concentration to 4% of test organisms	LC16	Lethal concentration to 16% of test organisms
EC05	Effective concentration to 5% of test organisms	LC20	Lethal concentration to 20% of test organisms
EC08	Effective concentration to 8% of test organisms	LC25	Lethal concentration to 25% of test organisms
EC10	Effective concentration to 10% of test organisms	LC30	Lethal concentration to 30% of test organisms
EC100	Effective concentration to 100% of test organisms	LC34	Lethal concentration to 34% of test organisms
EC12.5	Effective concentration to 12.5% of test organisms	LC35	Lethal concentration to 35% of test organisms
EC13	Effective concentration to 13% of test organisms	LC38	Lethal concentration to 38% of test organisms
EC15	Effective concentration to 15% of test organisms	LC40	Lethal concentration to 40% of test organisms
EC16	Effective concentration to 16% of test organisms	LC45	Lethal concentration to 45% of test organisms
EC18	Effective concentration to 18% of test organisms	LC50	Lethal concentration to 50% of test organisms
EC20	Effective concentration to 20% of test organisms	LC50*	Lethal concentration to 50% of test organisms

Code	Definition	Code	Definition
EC22	Effective concentration to 22% of test organisms	LC51	Lethal concentration to 51% of test organisms
EC23	Effective concentration to 23% of test organisms	LC60	Lethal concentration to 60% of test organisms
EC24	Effective concentration to 24% of test organisms	LC65	Lethal concentration to 65% of test organisms
EC25	Effective concentration to 25% of test organisms	LC70	Lethal concentration to 70% of test organisms
EC30	Effective concentration to 30% of test organisms	LC75	Lethal concentration to 75% of test organisms
EC32	Effective concentration to 32% of test organisms	LC80	Lethal concentration to 80% of test organisms
EC34	Effective concentration to 34% of test organisms	LC80*	Lethal concentration to 80% of test organisms
EC35	Effective concentration to 35% of test organisms	LC84	Lethal concentration to 84% of test organisms
EC37	Effective concentration to 37% of test organisms	LC85	Lethal concentration to 85% of test organisms
EC38	Effective concentration to 38% of test organisms	LC90	Lethal concentration to 90% of test organisms
EC40	Effective concentration to 40% of test organisms	LC94	Lethal concentration to 94% of test organisms
EC41	Effective concentration to 41% of test organisms	LC95	Lethal concentration to 95% of test organisms
EC46	Effective concentration to 46% of test organisms	LC99	Lethal concentration to 99% of test organisms
EC50	Effective concentration to 50% of test organisms	LC99.5	Lethal concentration to 99.5% of test organisms
EC50*	Effective concentration to 50% of test organisms	LC99.9	Lethal concentration to 99.9% of test organisms
EC52	Effective concentration to 52% of test organisms	LD0	Lethal dose to 0% of test organisms
EC58	Effective concentration to 58% of test organisms	LD0.1	Lethal dose to 0.1% of test organisms
EC60	Effective concentration to 60% of test organisms	LD01	Lethal dose to 1% of test organisms
EC64	Effective concentration to 64% of test organisms	LD02	Lethal dose to 2% of test organisms

Code	Definition	Code	Definition
EC66	Effective concentration to 66% of test organisms	LD05	Lethal dose to 5% of test organisms
EC67	Effective concentration to 67% of test organisms	LD10	Lethal dose to 10% of test organisms
EC69	Effective concentration to 69% of test organisms	LD100	Lethal dose to 100% of test organisms
EC70	Effective concentration to 70% of test organisms	LD11	Lethal dose to 11% of test organisms
EC72	Effective concentration to 72% of test organisms	LD15	Lethal dose to 15% of test organisms
EC75	Effective concentration to 75% of test organisms	LD16	Lethal dose to 16% of test organisms
EC80	Effective concentration to 80% of test organisms	LD20	Lethal dose to 20% of test organisms
EC81	Effective concentration to 81% of test organisms	LD25	Lethal dose to 25% of test organisms
EC84	Effective concentration to 84% of test organisms	LD28	Lethal dose to 28% of test organisms
EC85	Effective concentration to 85% of test organisms	LD30	Lethal dose to 30% of test organisms
EC89	Effective concentration to 89% of test organisms	LD35	Lethal dose to 35% of test organisms
EC90	Effective concentration to 90% of test organisms	LD37	Lethal dose to 37% of test organisms
EC92	Effective concentration to 92% of test organisms	LD40	Lethal dose to 40% of test organisms
EC94	Effective concentration to 94% of test organisms	LD50	Lethal dose to 50% of test organisms
EC95	Effective concentration to 95% of test organisms	LD60	Lethal dose to 60% of test organisms
EC96	Effective concentration to 96% of test organisms	LD62	Lethal dose to 62% of test organisms
EC97	Effective concentration to 97% of test organisms	LD63	Lethal dose to 63% of test organisms
EC98	Effective concentration to 98% of test organisms	LD70	Lethal dose to 70% of test organisms
EC99	Effective concentration to 99% of test organisms	LD75	Lethal dose to 75% of test organisms

Code	Definition	Code	Definition
ED01	Effective dose to 1% of test organisms	LD80	Lethal dose to 80% of test organisms
ED10	Effective dose to 10% of test organisms	LD84	Lethal dose to 84% of test organisms
ED100	Effective dose to 100% of test organisms	LD90	Lethal dose to 90% of test organisms
ED15	Effective dose to 15% of test organisms	LD95	Lethal dose to 95% of test organisms
ED20	Effective dose to 20% of test organisms	LD99	Lethal dose to 99% of test organisms
ED25	Effective dose to 25% of test organisms	LD99.9	Lethal dose to 99.9% of test organisms
ED30	Effective dose to 30% of test organisms	LD99.99	Lethal dose to 99.99% of test organisms
ED50	Effective dose to 50% of test organisms	LD99.99683	Lethal dose to 99.99683% of test organisms
ED80	Effective dose to 80% of test organisms	LETC	Lethal threshold concentration
ED85	Effective dose to 85% of test organisms	LOEC	Lowest observable effect concentration
ED90	Effective dose to 90% of test organisms	LOEL	Lowest-observable-effect-level
ED95	Effective dose to 95% of test organisms	LOER	Lowest observed effects residue
ED99	Effective dose to 99% of test organisms	LR10	Lethal residue concentration to 10% of test organisms
ER01	Effective residue concentration to 1% of test organisms	LR100	Lethal residue concentration to 100% of test organisms
ER05	Effective residue concentration to 5% of test organisms	LR20	Lethal residue concentration to 20% of test organisms
ER10	Effective residue concentration to 10% of test organisms	LR25	Lethal residue concentration to 25% of test organisms
ER20	Effective residue concentration to 20% of test organisms	LR50	Lethal residue concentration to 50% of test organisms
ER25	Effective residue concentration to 25% of test organisms	LR90	Lethal residue concentration to 90% of test organisms
ER50	Effective residue concentration to 50% of test organisms	LT00	Time to 0% mortality of organisms

Code	Definition	Code	Definition
ER90	Effective residue concentration to 90% of test organisms	LT10	Time to 10% mortality of organisms
ET0	Effective response time to 0% of test organisms	LT100	Time to 100% mortality of organisms
ET10	Effective response time to 10% of test organisms	LT20	Time to 20% mortality of organisms
ET100	Effective response time to 100% of test organisms	LT25	Time to 25% mortality of organisms
ET15	Effective response time to 15% of test organisms	LT30	Time to 30% mortality of organisms
ET20	Effective response time to 20% of test organisms	LT40	Time to 40% mortality of organisms
ET25	Effective response time to 25% of test organisms	LT50	Time to 50% mortality of organisms
ET30	Effective response time to 30% of test organisms	LT50*	Time to 50% mortality of organisms
ET50	Effective response time to 50% of test organisms	LT60	Time to 60% mortality of organisms
ET50*	Effective response time to 50% of test organisms	LT70	Time to 70% mortality of organisms
ET75	Effective response time to 75% of test organisms	LT75	Time to 75% mortality of organisms
ET80	Effective response time to 80% of test organisms	LT80	Time to 80% mortality of organisms
ET85	Effective response time to 85% of test organisms	LT90	Time to 90% mortality of organisms
ET90	Effective response time to 90% of test organisms	LT95	Time to 95% mortality of organisms
ET95	Effective response time to 95% of test organisms	LT97	Time to 97% mortality of organisms
ET99	Effective response time to 99% of test organisms	LT99	Time to 99% mortality of organisms
IC01	Inhibition concentration to 1% of test organisms	LT99.9	Lethal dose to 99.9% of test organisms
IC05	Inhibition concentration to 5% of test organisms	MATC	Maximum acceptable toxicant concentration
IC07	Inhibition concentration to 7% of test organisms	MATC*	Maximum Acceptable Toxicant Concentration

Code	Definition	Code	Definition
IC10	Inhibition concentration to 10% of test organisms	MATR	Maximum allowable toxicant residue
IC100	Inhibition concentration to 100% of test organisms	NOEC	No-observable-effect-concentration
IC15	Inhibition concentration to 15% of test organisms	NOEL	No-observable-effect-level
IC20	Inhibition concentration to 20% of test organisms	NOER	No observed effects residue
IC25	Inhibition concentration to 25% of test organisms	NR	Not reported
IC27	Inhibition concentration to 27% of test organisms	NR-LETH	100% mortality or 0% survival of organism
IC30	Inhibition concentration to 30% of test organisms	NR-ZERO	0% mortality or 100% survival of organisms
		T1/2	Time required for one-half of ingested dose to be eliminated

Effect Codes

Effect Group Codes	Definitinon
ACC	**Acc**umulation: Effects, measurements and endpoints which characterize the process by which chemicals are taken into and stored in plants or animals. Includes lethal body burden.
BEH (AVO, BEH, **FDB)**	**Beh**avior: Overt activity of an organism represented by three *effect* groups - avoidance, general behavior, and feeding behavior. All measurements related to reproductive behavior are listed under the major effect group REP.
BCM (BCM, ENZ, HRM)	**B**io**c**he**m**ical: measurement of biotransformation or metabolism of chemical compounds, modes of toxic action, and biochemical responses in plants and animals including three *effect* groups - biochemical, enzyme and hormone effects.
CEL (CEL, GEN, HIS)	**Cel**lular Effects: measurements and endpoints regarding changes in structure and chemical composition of cells and tissues of plants or animals as related to their functions; the three *effect* groups include cellular, genetic and histological effects.
GRO (DVP, GRO, MPH)	**Gro**wth: a broad category which encompasses measures of weight and length and includes effects on development, growth and morphology. Development covers toxicant effects on tissue organization in growing progeny. Growth represents length and weight changes at any point in the life cycle. Morphology measurements and endpoints address the structure (bones) and form (organ/tissue development) of an organism at any stage of its life history.
MOR	**Mor**tality: measurements and endpoints where the cause of death is by direct action of the chemical.
PHY (INJ, IMM, ITX, PHY)	**Phy**siology: measurements and endpoints regarding basic activity in cells and tissues of plants or animals. Four *effect* groups include injury, immunity, intoxication and general physiological response.
POP	**Pop**ulation: measurements and endpoints relating to a group of organisms or plants of the same species occupying the same area at a given time.
REP (REP, **AEG)**	**Rep**roduction: measurements and endpoints to track the effect of toxicants on the reproductive cycle. All measurements related to reproduction and care of progeny are included in this category, including behavioral and physiological measurements. Measurements related to development of progeny are found under the major *effect* group GRO, minor *effect* group DVP. The *effect* group AEG includes measurements of avian or reptilian eggs.
SYS (PRS)	Eco**sys**tem: measurements and endpoints to track the effects of toxicants on ecosystem processes. Includes microbial processes.
NOC	**No** Group **C**ode: measurements related to multiple or delayed effects or endpoints reported without a specific effect.

Effect/Measurement

ACC Accumulation Group

Code	Definition	Code	Definition
ASMC	Assimilation of test chemical	LBCN	Lethal body concentration
BDBN	Body burden	RATO	Ratio
BDCN	Body concentration	RSDE	Residue
ELIM	Elimination	TSLC	Translocation
GACC	Accumulation, general	UPTK	Uptake

BEH Behavior Group

AVO Avoidance Behavior

Code	Definition	Code	Definition
CHEM	Chemical avoidance	GAVO	Avoidance, general
FOOD	Food avoidance	STIM	Stimulus avoidance
		WATR	Water avoidance

BEH Behavior

Code	Definition	Code	Definition
ACTP	Accuracy of learned task, performance	MIGR	Migration
ACTV	Activity, general	MOTL	Motility
ADOT	Adopt/Adoption	NACT	Non-social activity
AGCL	Aggregation/Clumping	NCMV	Nocturnal movements
AGGT	Aggression	NGRX	Negative geotaxis reflex
ALRT	Alert	NMVM	Movements, number of
APCH	Approach	NRES	No response
ATCL	Antennal cleaning	NRSP	Neuroresponse
ATSK	Acquired task	NVOC	Vocalizations, number of
ATTK	Attack	ORNT	Orientation

Code	Definition	Code	Definition
BATH	Bathing	PALR	Palmar grasp
BBBH	Burrowing behavior, burrowing length	PHTR	Phototactic response
BITE	Bite or biting	PLAR	Placing reflex
BOBB	Bob, bobbing	PNPY	Prey penetration
BOWW	Bow, bowing	POLC	Pollen collected
BWAX	Bees wax produced	POST	Posture
CASE	Case Leaving Behavior	PRVU	Predator vulnerability
CMST	Compactness of swimming track	REST	Rest
CNBL	Cannibalism	RRSP	Righting response
COMA	Colony maintenance (bees)	RSNR	Resting and not ruminating
COMB	Comb built	RSPT	Response time to a stimulus
CRDN	Coordination	RSRU	Resting and ruminating
CRTP	Continual reinforcement task performed	RUBB	Rub
DHST	Diameter of helix of swimming track	RUNN	Run
DIGG	Dig/digging	RVSE	Reversals
DPLY	Displaying behavior	SACT	Social activity
DRMT	Dormant, adverse condition response	SCRT	Scratch
DTCH	Ability to detach from substrate	SDNR	Standing and not ruminating
DUMV	Diurnal movements	SDRU	Standing and ruminating
ECMB	Empty combs	SEBH	Search/explore/forage behavior
EQUL	Equilibrium	SLEP	Sleeping
ERRR	Errors in trained behavior	SMEL	Smell/Sniff
EXTN	Extinction	SRCH	Stretch
FLHM	Flehmen response	SRED	Spread, spreading
FLIT	Flight	STLT	Startle
FLTR	Filtration rate	STPY	Stereotypy
FLYG	Flying behavior	STRS	Observed stress
FOOT	Foot retraction	SURF	Surfacing

Code	Definition	Code	Definition
FRTP	Fixed ratio task performed	SWIM	Swimming
FRZG	Freezing behavior	THML	Temperature tolerance
FTTR	Flutter	TUBE	Tube Building
GBHV	Behavioral changes, general	VACL	Valve closure
GPST	Grip strength	VCLF	Visual cliff
GRAB	Grab, grabbing	VIBR	Vibrissea placing
GROM	Grooming	VISP	Visual placing
HDLF	Head lift	VMVT	Vertical or rearing movements
HMVT	Horizontal movements	VORX	Vestibulo-ocular reflex
HONY	Honey produced	VRTP	Variable Interval Reinforcement Task Performed
INST	Sleeping time, induced	WALK	Walk
JUMP	Jumping	WEBB	Web-building
KILL	Kill	WINK	Nictitation
LOCO	Distance moved, change in direct movement	WTCH	Watch, watching
		YAWN	Yawn

FDB Feeding Behavior

Code	Definition	Code	Definition
BGNG	Begging behavior	FTIM	Feeding time
FCNS	Food consumption	GFDB	Feeding behavior, general
FDNG	Feeding behavior	LTBD	Litter breakdown
FECL	Fecal production	PRBE	Predatory behavior
FSTR	Food storage	STRK	Strikes (number of times food source was hit)
		WCON	Water consumption

BCM Biochemical Group

BCM Biochemical

Code	Definition	Code	Definition
10HC	10-Hydroxycamptothecin	IBIL	Indirect bilirubin (free)
11HE	11-Hexadecenoic acid	ICON	Iodine concentration
1ACC	1-Aminocyclopropane-1-carboxylic acid	IDAA	Indole Acetic Acid
1CLA	9 trans, 11 cis-Conjugated linoleic acid	IDMN	Isodesmosine + Desmonine
1HPY	1-Hydroxypyrene	IDZL	Imidazole
20SP	20S Proteasome	IHDA	isoheptadecanoic acid
25HC	25-Hydroxycholecalciferol	IKBA	Inhibitory kappa B alpha
2AAF	2-Acetylaminofluorene	IL10	Interleukin-10
2ACG	2-Arachidonoylglycerol	IL12	Interleukin-12
2CLA	10 trans, 12 cis-conjugated linoleic acid	IL17	Interleukin 17
3CLA	11 cis, 13 trans-conjugated linoleic acid	IL1A	Interleukin-1alpha
3IMG	3-Indolymethyl glucosinolate	IL1B	Interleukin-1 beta
3MDO	3-Methoxytyramine to Dopamine ratio	IL2B	Interleukin-2 receptor beta
3MTA	3-Methoxytyramine	IL8B	Interleukin-8 receptor beta
3NTT	3-nitrotyrosine to tyrosine ratio	ILEU	Isoleucine
3PPG	3-Phosphoglycerate	ILK3	Interleukin-3
4ORA	4-Oxo-retinoic acid	ILK4	Interleukin-4

Code	Definition	Code	Definition
5HAA	5-Hydroxyindole acetic acid	ILK6	Interleukin-6
5HSR	5-Hydroxyindole Acetic Acid to Serotonin ratio	IMNT	Iso-menthone
6BHC	6-beta-Hydroxycortisol	IN1P	Inositol 1-phosphate
6KPA	6-keto-prostaglandin F1 alpha	INSN	Inosine
78GR	78 kDa glucose-regulated protein	IODA	Iso-octadecanoic acid
7BRF	7-Benzyloxyoxyresorufin	IP40	Interleukin-12 subunit p40
7ERF	7-Ethoxyresorufin	IPDA	Isopentadecanoic acid
7MRF	7-Methoxyresorufin	IPLM	Isopalmitic acid
7PRF	7-Pentoxyresorufin	ISDM	Isodesmosine
8O2D	8-Oxo-2'-deoxyguanosine	ISPT	Isoprostane
8ODG	8-hydroxydeoxyguanosine	ITFG	Interferon-gamma
A1GL	Alpha-1 globulin	ITL2	Interleukin-2
A2GL	Alpha-2 globulin	JSMA	Jasmonic acid
A2UG	Alpha 2u-globulin	KCDR	Potassium Cadmium Ratio
AA13	Annexin A13	KCON	Potassium content
AA1A	Annexin A1a	KCUR	Potassium Copper Ratio
AABA	Alpha-aminobutyric acid	KGTA	alpha-ketoglutarate
AADA	Ascorbic acid to Dehydroascorbate ratio	KNAR	Potassium Sodium Ratio
AAGO	Alanine aminotransferase to glutamate oxaloacetate ratio	KNO3	Potassium nitrate
AAIB	alpha-Aminoisobutyrate	KNRT	Potassium Nitrogen ratio
AAUR	Aminoaciduria	KTBA	alpha-ketobutyric acid
AB12	Aflatoxin B1 and B2	KTNE	Ketone
ACAH	Acetaldehyde	LA2S	L-Ascorbyl-2-sulfate
ACAR	alpha-Carotene	LAAC	Lac
ACCL	Acetylcholine to choline ratio	LACT	Lactate
ACHL	Acetylcholine	LALN	Ratio of linoleic to linolenic fatty acids
ACHP	Acid-soluble hydroxyproline	LAMT	Total lauric acid metabolites
ACID	Acid produced	LANO	Lanosterol

Code	Definition	Code	Definition
ACRR	Acetylene reduction rate/plant roots nodule	LASC	L-ascorbic acid
ACSO	S-alk(en)yl-L-cysteine sulphoxide	LASS	L-ascorbyl-2-sulfate
ACTE	Acetone	LAUA	Lauric acid
ACTN	Actin	LCAR	Lipid:Chlorophyll A ratio
ACTR	delta Aminolevulinic acid creatine ratio	LCCT	Leucocrit
ACXN	alpha-Cryptoxanthin	LCPR	The ratio of lipid to chlorophyll to protein
ADAT	Adenosine diphosphate (ADP) to Adenosine triphosphate (ATP)	LCPY	Lactate Pyruvate Ratio
ADCD	Adenylic acid	LCTA	Lactic acid
ADNA	Adrenic Acid	LCTS	Lactose
ADOX	Adenosine diphosphate to oxygen ratio	LDLP	Low density lipoprotein
ADPT	Adenosine diphosphate (ADP)	LDNT	Lipids, neutral
ADRT	Acid resistant thiol	LDPL	Lipids, polar
AFB1	Aflatoxin B1	LDPO	Lipid peroxides
AFB2	Aflatoxin B2	LELA	Linoelaidic acid
AFG1	Aflatoxin G1	LEUC	Leucine
AFG2	Aflatoxin G2	LGHE	Leghemoglobin
AGCO	Silver concentration	LIAC	Lignoceric acid
AGLB	alpha-Globulins	LICO	Lithium content
AGPT	alpha-glycerophosphate	LIGN	Lignin
AHDA	Anteisoheptadecanoic acid	LIMO	Limonene
AIHP	Acid-insoluble hydroxyproline	LINA	Linalool
AION	Anions	LINO	Linoleic acid
AKLD	Alkoxylipids	LIPA	Lipoic Acid
ALAC	alpha-Linolenic acid	LIPD	Lipid
ALAN	Alanine	LIPT	Total lipids
ALBE	Albumin energy	LNEI	Linolenic and eicosanoic acid
ALBM	Albumin	LNLA	Linolenic acid, all cis
ALCO	Aluminum content	LNLN	Linolenic acid

Code	Definition	Code	Definition
ALGL	Albumin to globulin ratio	LNLT	Linoleate
ALKD	Alkaloids, Total	LPDS	Lipocalin-type prostaglandin D synthase-like protein
ALLA	Allantoin	LPFS	Lipofuscin
ALLT	Allantoic acid	LPPC	Lysophosphatidylcholine
ALPB	Apolipoprotein B100	LPPE	Lysophosphatidylethanolamine
ALTL	Alternariol	LPPG	Lysophosphatidylglycerol
ALTN	Alternariol monomethyl ether	LPPT	Lipoproteins
AMAC	Amino acid(s), general term	LPPX	Lipoperoxide
AMAH	S-adenosylmethionine to S-adenosylhomocysteine ratio	LPRR	The ratio of lipid to protein
AMAN	Amino acid nitrogen	LPSA	Lipid soluble antioxidants
AMDT	Adenosine phosphates (AMP+ADP+ATP)	LTB4	Leukotriene B4
AMMO	Ammonia	LUTE	Lutein
AMNH	P-amino hippurate	LUZC	Lutein and Zeaxanthin to Chlorophyll A ratio
AMNN	Amino nitrogen	LUZE	Lutein and Zeaxanthin content
AMPP	Amyloid precursor protein	LYCP	Lycopene
AMPT	Adenosine monophosphate (AMP)	LYSI	Lysine
AMYD	Amyloid	MANT	Mannitol
AMYS	Amylose	MARG	Margaric acid
ANPY	Antipyrine	MCHC	Mean corpuscular (cell) hemoglobin concentration
ANTH	Anthocyanin	MCHG	Mean corpuscular hemoglobin
ANTO	Antioxidant activity	MCON	Mineral content
ANXH	Antheraxanthin	MCPR	Microsomal proteins
AOAR	Ascorbate to oxidized Ascorbate ratio	MCPV	Mean corpuscular volume
APAI	Apolipoprotein A-I	MCUR	Metallothionein to Copper ratio
APCR	Allophycocyanin to chlorophyll a ratio	MCYS	Microcystin
APCY	Allophycocyanin	MDCH	Methyl-4,7,10,13,16,19-Docosahexanate
APDA	anteisopentadecanoic acid	MEAD	Mead Acid

Code	Definition	Code	Definition
APHT	Alkaline phosphate	METH	Methionine
APRO	alpha-Proteins	MFPF	Monosaturated fatty acid to Polysaturated fatty acid ratio
AQP1	Aquaporin-1	MGAL	Magnesium to aluminum ratio
AQPO	Aquaporin	MGCO	Magnesium (Mg) content
ARCA	Arachidic acid	MGCR	Monoglycerides
ARCH	Arachidonate	MGDG	Monogalactosyl diglyceride (glycolipid) content
ARGI	Arginine	MGLB	Methemoglobin
ARP1	Actin-related protein 1	MGNR	Magnesium to nitrogen ratio
ASBT	Ascorbate	MGPN	Mg-2,4-divinyl pheophophyrin a5 monomethyl ester
ASCA	Ascorbic acid	MHNR	3-Methoxy-4-hydroxyphenylglycol to Norepinephrine ratio
ASCN	Arsenic to creatinine ratio	MHPS	3-methoxy-4-hydroxyphenylethyleneglycol sulfate
ASCO	Arsenic content	MINO	myo-Inositol
ASHC	Ash content	MJNA	Methyl jasmonate
ASPA	Aspartate	MLAT	Malate
ASPC	Aspartic Acid	MLDH	Malondialdehyde
ASPO	L-alpha-Aspartyl-L-proline	MLLA	Methyl linolenate
ASPR	Asparagine	MLNN	Melanin
ASRA	AST(reduced):total AST including oxidized glutathione	MNAC	Menthyl acetate
ASTA	Astaxanthin	MNAI	Manganese accumulation index
ASYC	Alpha-synuclein	MNCO	Manganese (Mn) content
ATAD	Adenosine Triphosphate (ATP) to Adenosine diphosphate (ADP)	MNFE	Manganese to iron ratio
ATAM	Adenosine Triphosphate (ATP) to Adenosine monophosphate (AMP)	MNNR	Manganese Nitrogen ratio
ATCO	alpha-Tocopherol concentration	MNTH	Menthone
ATGT	alpha-Tocopherol and gamma - Tocopherol	MOCO	Molybdenum content

Code	Definition	Code	Definition
ATHE	ATP to hemoglobin ratio	MOTP	Monoterpenes
ATPP	Adenosine triphosphate to Phosphocreatine ratio	MP3B	Microtubule-associated protein 1 light chain 3 beta
ATPT	Adenosine triphosphate	MPIX	Magnesium-protoporphyrin IX
ATRA	all-trans-retinoic acid	MPRB	Membrane progesterone receptor beta
ATUB	alpha-Tubulin	MPVL	Mean platelet volume
AVDN	Avidin	MRNN	Marennine
AVER	Averufin	MRXC	Mirex concentration
B2MG	beta2-Microglobulin	MSLC	Methylselenocysteine content
BACA	Barium Calcium ratio	MTCD	Metallothionein to Cadmium ratio
BACO	Barium content	MTHL	Menthol
BAGA	Bisphenol A glucuronic acid	MTLN	Metallothionein
BAPY	Benzo(a)pyrene content	MTLT	Metal Content, Total
BATP	beta-ATP (beta-Adenosine triphosphate)	MUFA	Monounsaturated Fatty Acids
BCAR	beta-Carotene	MYLN	Myelin
BCON	Boron content	MYRA	Myristic acid
BCXN	beta-Cryptoxanthin	MYSL	Myristoleic acid
BECO	Beryllium concentration	NACO	Sodium content
BFCO	Bromoform concentration	NADP	Nicatinamide-adenine dinucleotide phosphate, reduced
BGBN	beta globin	NAKR	Sodium Potassium ratio
BGLB	beta-Globulins	NAZN	Sodium Zinc Ratio
BGPR	beta- and gamma-Protein	NBUA	N-butyric acid
BHNC	Behenic acid	NC47	NSFL1 cofactor p47
BICO	Bismuth concentration	NCAR	Nitrogen calcium ratio
BIDP	Bid protein	NCB2	N-terminal EF-hand calcium-binding protein 2
BILE	Bile	NCLR	Sodium ion (Na+) to Chloride ion (Cl-) ratio
BIOT	Biotin content	NCON	Nitrogen (N) content
BLAC	Bile Acids	NEAA	Amino acids, nonessential

Code	Definition	Code	Definition
BLLB	Bilirubin	NFKB	Nuclear factor-kappa B
BPHY	b-Phycoerythrin	NH4I	Ammonium ion
BPTN	Biopterin	NHPN	Ammonium ion Nitrogen ratio
BRCO	Bromine Concentration	NICO	Nickel content
BRKN	Bradykinin	NICT	Nicotine
BTBL	beta-Tubulin	NIFE	Nickel to nitrogen ratio
BUNT	Blood urea nitrogen	NKPH	Enkephalin
C11O	cis-vaccenic acid	NKRT	Nitrogen potassium ratio
C12O	cis-12-octadecenoic acid	NMGR	Nitrogen Magnesium ratio
C13O	cis-13-octadecenoic acid	NMIF	Non-methylene-interrupted fatty acids
C1AB	Cry1Ab protein	NO2C	Nitrite concentration (NO2-)
C4CD	C4 acids	NO3C	Nitrate concentration (NO3-)
C7HD	cis-7-hexadecenoic acid	NOCO	Nitric Oxide concentration
C9BT	Total 9B,19- cyclopropylsterols	NODA	Nonadecanoic acid
C9HD	cis-9-heptadecenoic acid	NOHB	Nitrosyl hemoglobin
CA26	Cerotic acid	NPRT	Nitrogen Phosphorus Ratio
CAAL	Calcium to aluminum ratio	NPSH	Nonprotein sulfhydryl
CABC	Calcium Boron ratio	NPSS	Ninhydrin-positive substances
CABN	Calbindin	NPTN	Neopterin
CACC	Chlorophyll A to Chlorophyll C ratio	NRF2	Nuclear Factor E2 Related Factor 2
CACH	Carotene to Chlorophyll A Ratio	NRGC	Energy compound
CACO	Calcium content	NRMA	Neuraminic acid
CADV	Cadaverine	NSRA	Nitrogen to sulfur ratio
CAMP	Adenosine 3',5'-cyclic monophosphate	NSUG	Non-reducing sugars
CANA	Calcium to sodium ratio	NTPH	Nucleotide triphophate (Total) to hemoglobin ratio
CANR	Calcium Nitrogen ratio	NUAC	Nucleic acids
CANT	cis-Aconitic acid	NUTP	Nucleoside Triphosphate
CAPA	Capric acid	NUTR	Nutrient status
CAPH	Calcium/phosphorus ratio	NXNT	Neoxanthin

Code	Definition	Code	Definition
CARB	Carbohydrate	O1LA	(omega -1)-Hydroxy lauric acid
CARC	Carotenoid content	O2LA	(omega-2)-Hydroxy lauric acid
CARO	Carotene	O3FA	Omega 3 Fatty Acid
CARR	Carrageenan	O3LA	(omega-3)-Hydroxy lauric acid
CAZN	Calcium to Zinc ratio	O3O6	Omega 3 Fatty Acids to Omega 6 Fatty Acids ratio
CBCH	beta-Carotene to Chlorophyll A Ratio	O6FA	Omega 6 Fatty Acids
CC23	Crustacean calcium-binding protein 23	O6LA	(omega-6)-Hydroxy lauric acid
CCC3	Complement component C3-1	O6O3	Omega 6 Fatty Acids to Omega 3 Fatty Acids ratio
CCC9	Complement component C9	OACD	Organic acids
CCL2	Chemokine (C-C motif) ligand 2	OCON	Oxygen content
CCON	Carbon content	OCTA	Octadecenoic acid (C18:1n-7)
CCTR	Coproprophyrin creatine ratio	OCTS	Octadecenoic acids
CDAI	Cadmium accumulation index	ODCN	Octadecanoate
CDBP	Cadmium binding proteins	OHCP	Oxyhemocyanin to protein ratio
CDCO	Cadmium content	OHGL	O2 specific bond to hemoglobin
CDPR	Cadmium to phosphorus ratio	OLCO	Oil content
CDSE	Cadmium Selenium Ratio	OLEC	Oleic acid
CDST	Acid soluble thiol	OLYD	Oil yield
CDZN	Cadmium to zinc ratio	ONRA	Oxygen to nitrogen ratio
CFCA	Caffeic Acids	ORNI	Ornithine
CFCX	Coagulation Factor X	OSCN	Osteocalcin
CFLP	c-FLIP protein	OSDB	Oestradiol (estradiol) breakdown products
CGMP	Cyclic guanylic acid	OTHN	Orthinine
CGRP	Calcitonin Gene-Related Peptide	OXAC	Oxalic acid
CHAB	Chlorophyll A:Chlorophyll B	OXAE	Oxaloacetate
CHAP	Chlorophyll A to Phaeophytin A ratio	OXHC	Oxyhemocyanin
CHCR	Chlorophyll Carbon ratio	PAAR	Proline to total amino acid ratio
CHCT	Chlorophyll:Carotenoids	PABA	p-Aminobenzoic acid

Code	Definition	Code	Definition
CHDS	Chondroitin Sulfate	PADH	Propionaldehyde
CHES	Cholesteryl ester	PALB	Prealbumin
CHLA	Chlorophyll A concentration	PALL	Palmitoleic acid
CHLB	Chlorophyll B concentration	PALM	Palmitic acid
CHLC	Chlorophyll C concentration	PARG	Phosphoarginine
CHLN	Choline	PARN	Parinaric acid
CHLO	Chlorophyll	PBAI	Lead accumulation index
CHLR	Chloride	PBCO	Lead content
CHMG	Carboxyhemoglobin	PBHB	Poly-beta-hydroxybutyrate
CHOL	Cholesterol	PBIC	Lead Iodine content
CHOR	Choriogenin	PBPR	Lead Phosphorus ratio
CHTN	Chitin	PCAH	Protocatechuic aldehyde
CHYM	Chymotrypsinogen	PCAR	Protein carbonyls
CIII	Coproporphyrinogen III	PCBC	PCB concentration
CITA	Citric acid	PCCA	Protocatechuic acid
CITR	Citrulline	PCCB	Phycocyanobilin
CITT	Citrate	PCCR	Phycocyanin to chlorophyll a ratio
CJLA	Conjugated Linoleic Acids	PCD6	Programmed cell death 6-interacting protein
CLCN	Calcein	PCLV	Packed cell volume
CLCO	Chlorine concentration	PCMA	p-Coumaric acid
CLET	Cholesterol ethers	PCON	Phosphorus content
CLGA	Chlorogenic acid	PCPA	procarboxypeptidase A
CLHP	Collagen to hydroxyproline ratio	PCPB	Procarboxypeptidase B
CLLG	Collagen	PCRA	Phosphocreatine to creatine
CLMD	Calmodulin	PCRE	Phosphocreatinine
CLRT	Calreticulin	PDCA	Pentadecanoic acid
CMCA	Coumaric acids	PDCN	Pentadecanoate
CMPH	Camphor Content	PDJ1	Protein DJ-1
CNAC	N-acetyl-(S-3-chloroprop-2-enyl)cysteine (3CNAC)	PDST	Phosphodiester

Code	Definition	Code	Definition
CNDN	Conjugated Dienes	PECA	Phycoerythrin to chlorophyll a ratio
CNP1	Protein Canopy-1	PEGE	Polyethylene glycol (PEG) efflux
CNRA	Carbon to nitrogen ratio	PETN	Pectin
CO2C	CO2 concentration	PFER	Phosphorus to iron ratio
COAN	Chlorpyrifos-o-analog	PFOA	Perfluorooctanoic acid
COCO	Cobalt concentration	PFOS	Perfluorooctane sulfonate
CODR	9-cis-4-oxo-13,14-dihydro-retinoic acid	PGE2	Prostaglandin E2
CP2K	Cytochrome P2K	PGF2	Dinoprost
CP3K	Cytochrome P3K	PHBA	p-Hydroxybenzoic acid
CPHR	Calcium Phosphorus to Hydroxyproline ratio	PHBC	Phytoene to beta-carotene ratio
CPNI	Cysteine proteinase inhibitors	PHCB	Phycobiliproteins
CPRA	Caproic Acid	PHCN	Pseudohypericin
CPRP	Coproporphyrin	PHCO	Phycoerythrin
CPRT	Carbon phosphorus ratio	PHCR	Phosphocreatine
CPTC	Camptothecin	PHEN	Phenylalanine
CRBR	Cerebroside	PHPA	Phosphatidic acid
CRCA	Carotenoids Chlorophyll A ratio	PHPH	pH
CRCO	Chromium content	PHSC	Phosphatidyl choline (phospholipid) content
CREA	Creatinine	PHSE	Phosphatidyl ethanolamine (phospholipid) content
CREC	Creatine compounds	PHSG	Phosphatidyl glycerol (phospholipid) content
CRLF	Ceroid and Lipofuscin	PHSI	Phosphatidyl inositol (phospholipid) content
CRMD	Ceramide	PHSP	Phosphatide phosphorus
CRPR	Chromium : Phosphorus	PHSS	Phosphtidylserine
CRPT	C-reactive protein	PHST	Total phospholipid content
CRTN	Creatine	PHTC	Phytochelatin
CRVN	Carvone	PHTN	Phytoene
CSEN	Casein	PHXA	p-Hydroxybenzaldehyde

Code	Definition	Code	Definition
CSF2	Colony-Stimulating Factor, Granulocyte-Macrophage (CSF2)	PHYC	Phycocyanin
CSF3	Granulocyte Colony-Stimulating Factor (CSF3)	PIAC	Pinolenic acid
CT4P	Caudal type homeobox transcription factor 4 protein	PINE	Alpha-pinene
CTCR	Carotenoid to total chlorophyll	PLAC	Pulp:acid
CTR1	Copper Transporter 1	PLAM	Polyamine
CUAI	Copper accumulation index	PLAT	Platelets
CUCD	Copper to cadmium ratio	PLSC	Polysaccharide
CUCO	Copper (Cu) content	PLTR	Phospholipid to Triglyceride ratio
CUCR	Copper to Carbon ratio	PM29	Pro-matrix metaloproteinase 2 and Pro-matrix metaloproteinase 9
CUMN	Copper to manganese ratio	PMP2	proMMP2
CUMO	Copper to molybdenum ratio	PMP9	proMMP9
CUZN	Copper to zinc ratio	PMST	Phosphomonoester
CX10	C-X-C motif chemokine 10	PNAS	p-Nitroanisol
CYCB	Cytochalasin B	PNLA	Phenolic acids
CYSI	Cystine	PNRT	Phosphorus Nitrogen ratio
CYSN	Cytidine	PNYL	Phenols concentration
CYTC	Cytochrome c	POLD	Peroxidizable lipids
CYTN	Cysteine	PORP	Porphyrin
D11A	Docosenoic acid (C22:1n-11)	PORT	Phosphorus oxygen ratio
D6FA	Docosatrienoic acid (C22:3n-6)	PPDS	Phosphatidylserine
DAAA	Dehydroascorbic acid to Ascorbic Acid ratio	PPEA	Phosphoethanolamine
DAAS	Dehydroascorbic acid and Ascorbic Acid	PPHT	Phosphate
DABT	Dehydroascorbate	PPIX	Protoporphyrin IX
DALA	delta-Aminolevulinic acid	PPPN	Phosphoprotein
DAPP	Diaminopropane	PPPT	Phosphorylation of proteins
DASC	Dehydroascorbic acid	PPYT	Phaeophytin
DATP	Dopamine Transporter Protein	PRAS	Prasinoxanthin

Code	Definition	Code	Definition
DB19	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 19 (DBP5 homolog, yeast)	PRCO	Protein content
DCDA	3,4-Dihydroxyphenylacetic acid to Dopamine ratio	PRLN	Proline
DCHA	Docosahexaenoic acid	PROB	Protein binding
DCPA	Docosapentaenoic acid	PROI	Protein, insoluble
DDEC	DDE concentration	PRPO	Protein to Polysaccharide ratio
DDRP	Didehydroretinyl palmitate	PRSH	Protein bound sulfhydryl
DDXN	Diadinoxanthin	PRSL	Soluble proteins
DGCR	Diglyceride	PRST	Structure proteins
DGDG	Digalactosyl diglyceride (glycolipid)	PRTL	Protein, total
DHAP	Dihydroxyacetone-P	PRTM	Prothrombin
DHCA	1,25-Dihydrocholecalciferol	PRTO	Protoporphyrin
DHLA	Dihomo-gamma-Linolenic Acid	PRUR	Protein to urea ratio
DHMG	Deoxyhemoglobin	PRXT	Paroxetine
DHPG	Dihydroxyphenylethylene glycol	PSCY	Plastocyanin
DHRT	Dehydroretinol	PSPC	Phosphocholine
DISC	Diethylsuccinate hydrolysis	PSPH	Phosphagen
DMCA	Domoic Acid	PSPI	Phosphotidylserine and phosphotidylinosital
DMSP	Dimethylsulfoniopropionate	PSPY	Phosphoenol pyruvate
DOP1	Dopa	PTCP	Protochlorophyllide
DOPC	3,4-Dihydroxyphenylacetic acid	PTLN	Patulin
DOVL	Deoxynivalenol	PTNA	Pantothenic acid
DPHG	Diphosphatidylglycerol	PTNN	Phlorotannin
DPHZ	1,1-Diphenyl-2-picryl hydrazyl	PTSM	Proteasome
DPPA	2,3-Diphosphoglyceric acid	PUFA	Polyunsaturated Fatty Acids
DPR5	Dihydropyrimidinase-related protein 5	PUSF	Polyunsaturated fatty acid to Saturated fatty acid ratio
DRP3	Dihydropyrimidinase-related protein 3	PUTR	Putrescine
DRYM	Dry matter	PYAX	Phytoalexin
DSMN	Desmosine	PYRT	Pyrethrum

Code	Definition	Code	Definition
DTBL	Direct bilirubin (conjugated)	PYRV	Pyruvate
DTXN	Diatoxanthin	PZNR	Phosphorus to Zinc ratio
DYEN	Dynein	QPHP	Non-photochemical quenching pigments to light harvesting pigments ratio
E11A	Eicosenoic acid (C20:1n-11)	QUIN	Quinone
ECCR	Echinochrome	R23A	Ribosomal protein L23a
ECDA	Eicosadienoic acid	RBCO	Rubidium Concentration
ECFC	Esterified cholesterol free cholesterol ratio	RBGD	Retinoyl beta-glucuronide
ECOA	Eicosenoic acid	RBSD	Riboside
ECSA	Eicosatrienoic acid	RBVL	Relative blood volume (volume/100g body weight)
ECSP	Eicosapentaenoate	RDWD	Red cell distribution width
EDPS	Endoplasmin	RHDP	Rhodopsin
EF1A	Elongation factor-1 alpha	RIBO	Riboflavin content
EICN	Ethyl isocyanide	RIDX	Refractive index
EIDO	Eicosapentaenoic acid and Docosahexaenoic acid	RLPA	Reduced Lipoic Acid
EIPA	Eicosapentaenoic acid	RNDP	Ratio NADPH to NADP
ELDA	Elaidic acid	ROXS	Reactive oxygen species
ELST	Elastin	RRRA	13-cis-Retinoic acid to 9,13-di-cis-Retinoic acid ratio
ELYT	Electrolytes	RSUG	Reducing sugars
ENDP	Endorphin	RTAC	Retinoic acid
ENKP	Enkephalin	RTAT	Retinol (all trans)
EPDM	Ependymin	RTES	Retinyl esters
EPNP	O-Ethyl-O-p-nitrophenylbenzenethionophosphate	RTND	Retinoids
ERGL	Ergosterol	RTNL	Retinal
ERUC	Erucic acid	RTRP	Retinol/Retinyl palmitate ratio
ESAA	Amino acids, essential	RTST	Retinyl stearate
ESGM	Estrogen metabolism	S25A	Synaptosomal-associated protein 25-A

Code	Definition	Code	Definition
ESRP	Estrogen receptor protein	SAHC	S-adenosyl-l-homocysteine
ETCO	epsillon-Tocopherol concentration	SAME	S-adenosyl-l-methionine
ETFA	Electron transfer flavoprotein subunit alpha	SATF	Saturated Fatty Acids
ETHL	Ethylene	SBCO	Antimony concentration
ETHM	Ethanolamine	SCCN	Succinate
ETSR	Erythrocyte sedimentation rate	SCON	Sulfur content
ETST	Esters of Sterins	SCPN	Scopoletin
ETXN	Endotoxin	SCSM	Selenocysteine to Selenomethionine ratio
EUCA	Eucalyptol	SECO	Selenium content
EZIN	Enzyme inhibitors	SEHG	Selenium mercury ratio
F2IP	F2-Isoprostanes	SERI	Serine
FA18	18:1(n-5) fatty acid	SERP	Serpin
FAAN	Free amino acid Nitrogen ratio	SERT	Serotonin transporter
FACR	Free amino acid to soluble carbohydrate ratio	SESR	Selenium to sulfur ratio
FADH	Formaldehyde	SEWE	Steryl esters and wax esters
FAME	Fatty acid methyl ester	SFTD	Sulfatides
FASL	Fas Ligand	SGMP	Sugar monophosphates
FATL	Fatty acid, total	SGRV	Specific gravity
FATS	Fatty acids	SHMG	Sulfhemoglobin
FBNT	Fibronectin	SICO	Silicon content
FBRG	Fibrinogen	SILA	Sialic acid
FBXP	F-box only protein 50	SLAC	Silicic acid
FCIX	Coagulation Factor IX	SLCA	Salicylic acid
FEAI	Iron accumulation index	SLCY	Selenocysteine content
FECO	Iron content	SLFH	Sulfhydryl
FEMN	Iron to manganese ratio	SLFT	Sulfate concentration
FENR	Fenretinide (4-Hydroxy-retinoic acid)	SLMT	Selenomethionine content
FEZN	Iron to zinc ratio	SLNT	Selenite content

Code	Definition	Code	Definition
FFTA	Fatty acids, free	SMET	Secondary metabolism
FIBR	Fiber	SNCO	Tin concentration
FLAV	Flavonoid	SNSC	S-Nitroso compounds
FLCA	Folic acid	SOSO	Soluble solids
FLCO	Fluoride concentration	SPER	Spermine
FLRS	Fluorescence	SPHG	Sphingomyelin
FLVN	Flavin	SPHS	Sugar phosphates
FNNN	Iron-nitrosyl plus N-nitroso compounds	SPIG	Spiggin
FRCM	Furanocoumarin	SPMD	Spermidine
FRCT	Fructose	SPOX	Superoxide
FRLA	Ferulic acid	SPTP	Synaptophysin
FRTN	Ferritin	SPXN	Siphonaxanthin
FSPP	Female specific proteins	SQVD	Sulfoquinovosyl diglyceride
FTIX	Free thyroxine index	SRCA	Strontium Calcium ratio
FUB1	Fumonisin B1	SRCO	Strontium content
FUB2	Fumonisin B2	SRGA	Siringic acid
FUMO	Fumonisins	SRTR	Serotonin to Trytophan ratio
FVII	Coagulation Factor VII	SSER	Sulfur to selenium ratio
FXTN	Fucoxanthin	SSTS	Sulfane Sulfur
G1GL	Gamma-1 globulin	SSUG	Soluble sugar content
G2GL	Gamma-2 globulin	STDN	Stearidonic acid
G5DP	guanosine 5'-diphosphate	STER	Stearic acid
G5TP	guanosine 5'-triphosphate	STES	Sterol esters
GABA	gamma-Aminobutyric acid	STLD	Saturated lipid or fat
GAMB	gamma-Aminobutyrate	STOL	Sterols
GAX4	Gonyautoxin 4	STPP	Sterol to phospholipid ratio
GBCM	General biochemical effect	STRH	Starch content
GBTN	Glycine betaine	SUCR	Sucrose
GBTR	gamma-Globulin to Transferrin ratio	SUFA	Ratio of saturated to unsaturated fatty acids
GCAC	Glucuronic Acid	SUGA	Sugar content

Code	Definition	Code	Definition
GCBN	Gap charge balance	SVOL	Steviol
GCLL	Glyceollin	SYRA	Syringic acid
GCLN	Grancalcin	T10O	trans-10-octadecenoic acid
GCPP	Glycerophosphocholine	T12O	trans-12-octadecenoic acid
GD1A	Ganglioside GD1a	T9HC	trans-9 Hexadecanoate
GD1B	Ganglioside GD1b	TA1C	Tubulin alpha-1C chain
GDAD	Gadoleic acid	TANN	Tannins
GERA	Geranyl acetate	TAOC	Total antioxidant capacity
GERN	Geraniol	TART	Tartaric acid
GESM	Geosmin	TAUR	Taurine
GG1P	GG12661 protein	TBAR	Thiobarbituric acid reactive substances
GGGH	Glutathione disulfide to glutathione ratio (oxidized to reduced)	TCNT	Thiocyanate
GGLB	gamma-Globulins	TCON	Tungsten content
GGLU	gamma-Glutamylcysteine	TCTP	translationally controlled tumor protein
GGM1	Ganglioside GM1	TDCN	Tetradecanoate
GGT1	Ganglioside GT1	TEAM	Tetraethyl ammonium
GINS	Ginsenosides	TERP	T-terpinene
GLAF	gamma-Linolenic acid	TFAA	Amino acids, total free
GLCA	Gallic acid	TGB1	Transforming growth factor beta 1
GLCN	Glycine	TGOG	Total glutathione Oxidized glutathione ratio
GLGL	Glutamine to glutamate ratio	TGRT	Taurine to Glycine ratio
GLOB	Globulin	THBA	Thiobarbituric acid
GLPS	Glucagon-Like Peptides	THCO	Thorium concentration
GLTE	Gluten	THIA	Thiamin
GLTH	Glutathione (reduced glutathione)	THLS	trehalose
GLTL	Galactolipid	THRE	Threonine
GLTT	Glutamate	THSF	Thioether
GLUC	Glucose	TICO	Titanium content

Code	Definition	Code	Definition
GLYA	Glycoalkaloid	TLBL	Bilirubin, total
GLYC	Glycogen	TLCO	Thallium content
GLYP	Glycoprotein composition	TLR2	Toll-like receptor 2 protein
GLYT	Total glycolipid content	TLR4	Toll-like receptor 4 protein
GMIN	Glutamine	TMAO	Trimethylamine oxide
GNGL	Ganglioside	TMFA	Tumor necrosis factor-alpha
GNSN	Guanosine	TNSC	Total non-structural carbohydrates
GPRO	Glial fibrillary acidic protein	TNZA	Tenuazonic acid
GRHP	Gonadotropin releasing hormone to protein content ratio	TOCA	Total oxidative capacity
GRMN	Gramine	TP53	Tumor protein D53
GSGS	Reduced Glutathione to Glutathione disulfide	TPNN	Troponin
GSPL	Gossypol	TPPH	Thiamin pyrophosphate
GSSG	Glutathione disulfide (oxidized glutathione)	TRC3	Short transient receptor potential channel 3 protein
GSYC	Gamma-synuclein	TRGB	Thyroglobulin
GTAS	Glutamine and asparagine	TRIB	Tributyrin
GTCO	gamma-Tocopherol concentration	TRIG	Triglycerides
GTHE	GTP to hemoglobin ratio	TRLX	Trolox
GTMA	Glutamic acid	TRTY	Trytophan to tyrosine ratio
GTP1	Glucose Transporter Type 1	TRXN	Thioredoxin
GTPC	Gentiopicrin	TRYA	Tryptamine
GTTO	Glutathione, total	TRYP	Tryptophan
GYCL	Glycerol content	TRYS	Trypsinogen
H108	Heat shock protein 108	TSFN	Transferrin
H2O2	Hydrogen peroxide	TTAA	Amino acids, total
H727	Heat shock proteins 72 and 77	TTRN	Transthyretin
H89A	Heat Shock Protein 89 alpha	TTSL	Total Solids (in milk)
HBZA	Hydroxybenzoic acids	TTTV	Thymol turbidity test
HC37	Heat shock protein 90 co-chaperone Cdc37	TXB2	Thromboxane B2

Code	Definition	Code	Definition
HCNC	Hydrogen cyanide	TYMD	Thymidine
HCO3	Bicarbonate (HCO3-) concentration	TYRO	Tyrosine
HCTN	Homocysteine	UCON	Uranium concentration
HD12	12-hydroxydodecanoic acid	UCTR	Uroprophrin creatine ratio
HDCB	Hydrocarbons	UDPA	Uridine diphosphate acetylglucosamine, UDP acetylglucosamine
HDCH	High density lipoprotein cholesterol:total cholesterol	UFAS	Unsaturated fatty acids
HDLC	High density lipoprotein cholesterol	UIII	Uroporphyrinogen III
HEME	Heme content	UNCR	Urea nitrogen to Creatinine ratio
HEMT	Hematological parameters (Temporary AQUIRE code)	UPRP	Uroporphyrin
HEXS	Hexose	URAC	Uracil
HGCO	Mercury concentration	UREA	Urea
HGRP	Hyperosmotic glycine rich protein	UREN	Urea nitrogen
HIFT	Hypoxia inducible factor-1 alpha-Tubulin ratio	URIC	Uric acid
HIST	Histidine	USAR	Unsaturated fatty acid to saturated fatty acids ratio
HITY	Histidine to tyrosine ratio	USFA	Total saturated to total unsaturated fatty acids ratio
HMCT	Hematocrit (anemia)	USNA	Usnic acid
HMCY	Hemocyanin	UTMR	Urea to Trimethylamine oxide ratio
HMDP	Homovanillic acid to Dopamine Ratio	VACC	Vaccenic acid
HMGL	Hemoglobin	VALI	Valine
HMGT	Hemagglutinin	VB12	Vitamin B12
HMLS	Hemolysin	VCON	Vanadium content
HMPG	4-Hydroxy-3-methoxyphenylglycol	VCXN	Vaucheriaxanthin
HMPR	Hemoglobin to protein ratio	VEPO	Vitellogenin:protein ratio
HMSN	Hemosiderin	VERA	Versicolorin A
HNMS	N[3H-methyl]scopolamine	VHAC	Versiconal Hemiacetal Acetate
HP16	Heat shock protein 16	VIDD	Retinyl palmitate:Dhydroretinyl palmitate

Code	Definition	Code	Definition
HP20	Heat shock protein 20	VITA	Vitamin A
HP26	Heat Shock Protein 26	VITE	Vitellogenin
HP30	Heat shock protein 30	VITN	Vitellin
HP32	Heat shock protein 32	VIVT	Vitellogenin:Vitellin ratio
HP40	Heat shock protein 40	VLDL	Very low density lipoprotein
HP42	Heat shock protein 42	VLXN	Violaxanthine
HP52	Heat shock protein 52	VMAC	Vanillylmandelic acid
HP60	Heat shock protein 60	VNLA	Vanillic acid
HP69	Heat Shock protein 69	VNLL	Vanillin
HP70	Heat shock protein 70	VPRO	Vimetin heat shock protein
HP71	Heat shock protein 71	VSFD	Vitellogenin fused with superoxide dismutase
HP72	Heat shock protein 72	VTAE	Vitamin A ester (Retinyl ester)
HP73	Heat shock protein 73	VTD3	Vitamin D3
HP75	Heat shock protein 75	VTLP	Vitellogenin-like protein
HP90	Heat shock protein 90	VTMD	Vitamin D
HP96	Heat shock protein 96	VTME	Vitamin E
HPCI	Heat Shock protein cognate isoforms 72 - 77	VXCA	Violaxanthin to Chlorophyll A ratio
HPCN	Hypericin	WAXE	Wax esters
HPLN	Hydroxyproline	WAXX	Wax
HPSS	Heat Shock Proteins, small	WTCO	Water content
HPXN	Hemopexin	XNSN	Xanthosine
HS09	Heat shock protein 9	XTRA	Xanthurenic acid
HS16	Heat Shock Protein 16.2	ZEAR	Zearalenone
HS71	Heat shock cognate protein 71	ZNAI	Zinc accumulation index
HS78	Heat shock protein 78	ZNCD	Zinc to cadmium ratio
HSP4	Heat Shock Protein 4	ZNCO	Zinc content
HSP6	Heat Shock Protein 6	ZNCU	Zinc to Copper ratio
HSPS	Heat Shock Protein	ZNFE	Zinc to iron ratio
HSTM	Histamine	ZNNA	Zinc to sodium ratio

Code	Definition	Code	Definition
HVLA	Homovanillic acid	ZNPP	Zinc protoporphyrin
HXBT	Hexobarbital	ZPGP	Zona pellucida glycoprotein
HXDC	Hexadecenoate	ZPP2	Zona pellucide protein 2
HYDC	Hydroxide content	ZPRO	Zona radiata protein
HYLA	Hyaluronic Acid	ZXCH	Zeaxanthin to Chlorophyll A ratio
HYOX	Hymenoxon	ZXTN	Zeaxanthin
		ZXVX	Zeaxanthin to Violaxanthin ratio

ENZ Enzyme

Code	Definition	Code	Definition
15B7	15 beta/7alpha-Hydroxylases	GSO1	Glutathione S-transferase omega 1
17BH	17beta-Hydroxysteroid dehydrogenase	GSTR	Glutathione S-transferase
1A12	Cytochrome P450 1A1/2	GT1B	Glutathione S-transferase theta 1b
26SP	26S protease regulatory subunit 6A	GTPD	Glutamyl transpeptadase
2B10	Cytochrome P450 2B10 (CYP2B10)	GTST	Glutathione synthetase
2B12	Cytochrome P450 2B1/2	GULO	L-Gulonolactone oxidase
2C11	Cytochrome P450 2C11 (CYP2C11)	GUPX	Guaiacol peroxidase
2OHB	2-OH biphenyl hydroxylase	GYSS	Glycogen(starch) synthase
3A21	Cytochrome P450 3A2/1	HAFS	N-Hydroxy-2-acetylaminofluorene sulfotransferase
3HAO	3-Hydroxyanthranilate oxygenase	HAHY	Hydroxyacylglutathione hydrolase
3HBD	3-Hydroxybutyrate dehydrogenase	HATP	H+-transporting ATPase
3HCD	3-Hydroxyacyl-CoA dehydrogenase	HBDS	alpha-Hydroxybutyrate dehydrogenase
3MST	3-Mercaptopyruvate sulfurtransferase	HCAD	3-Hydroxyacyl-CoA dehydrogenase
450R	NADPH-cytochrome p-450 reductase	HCAR	beta-Hydroxy-beta-methylglutaryl-CoA reductase
4ABT	4-Aminobutyrate transaminase	HEPX	Heptachlor epoxidase
4CBH	4-Chlorobiphenyl hydroxylase	HOXY	Heme oxygenase
4OHB	4-OH biphenyl hydroxylase	HPSE	Hydrogen peroxidase

Code	Definition	Code	Definition
5ARD	5alpha-Reductase	HSHG	3-beta Hydroxysteroid dehydrogenase
5AVS	5-Aminolevulinate synthase	HSLP	Hormone-sensitive lipase
5NLT	5-Nucleotidase activity	HXBH	Hexobarbital hydroxylase
6PGD	6-Phosphogluconate dehydrogenase	HXKN	Hexokinase
7POD	7-pentoxyresorufin O-dealkylase	ICDH	Isocitrate dehydrogenase
A17E	ADAM 17 endopeptidase	ICLY	Isocitric lyase
A712	7,12-Dimethylbenz(a)anthracene hydroxylase	IDND	Isocitrate dehydrogenase (NAD+)
AAGP	Aspartate aminotransferase to glutamate pyruvate transaminase ratio	IDNP	Isocitrate dehydrogenase (NADP+)
AAMD	ATP synthase subunit alpha, mitochondrial	IDPT	Inorganic diphosphatase
AAPA	Amylolytic activity to Proteolytic activity	IPYR	Inorganic pyrophosphate
AAPT	Alanine aminopeptidase	ITMD	Iodothyronine 5'-monodeiodinase
AASY	Acetolactate synthase	IVAS	Invertase
AATA	Acyl coenzyme A:testosterone acyltransferase	JHES	Juvenile-hormone esterase
AATT	Alanine transaminase (ALT)	KATE	Kynurenine aminotransferase
ACAC	Acetyl-CoA carboxylase	KYNU	Kynureninase
ACCO	Acyl-CoA oxidase	L3CS	L-3-Cyanoalanine synthase
ACCS	1-Aminocyclopropane-1-carboxylate synthase	LACC	Laccase
ACHE	Acetylcholinesterase	LADH	Lactate dehydrogenase
ACOH	Acetanilide-4-hydroxylase	LAMO	Lauric acid monooxygenase
ACPH	Acid phosphatase	LDMD	Lactate dehydrogenase/malic dehydrogenase ratio
AD2B	Aldehyde dehydrogenase 2b	LEAM	Leucine aminopeptidase
ADCY	Adenylate cyclase	LGDD	L-Gulonate dehydrogenase and decarboxylase
ADDM	Adenosine deaminase	LGLY	Lactoylglutathione lyase
ADHE	Alcohol dehydrogenase	LIPS	Lipase
ADND	Aldehyde dehydrogenase (NAD)	LNSE	l-Leucyl-beta-naphthylamide splitting enzyme

Code	Definition	Code	Definition
ADNP	Aldehyde dehydrogenase (NADP)	LPDH	Lysopine dehydrogenase
ADNY	Adenylate	LPLP	Lipoprotein lipase
ADPS	ADPase	LPPR	Lipperoxidase
AEPX	Aldrin epoxidase	LPXG	Lipoxygenase
AFCD	alpha-Fucosidase	LTRS	Leucine tRNA ligase
AGCE	Angiotensin converting enzyme	LUCI	Luciferase
AGCT	alpha-Galactosidase	LYSO	Lysyl oxidase
AGKN	Arginine kinase	LYZM	Lysozyme activity
AGLP	Acylglycerol lipase	MALE	Malic enzyme
AGPD	alpha-Glycerol phosphate dehydrogenase	MAOA	Mono amino oxidase
AGPP	ADP glucose pyrophosphorylase	MAPK	Mitogen-activated protein kinases
AGTF	Alanine gamma-glutamyltransferase	MCAT	Magnesium carbonate adenosine triphosphatase
AHDX	Aniline hydroxylase	MCOD	Methoxycoumarin O-dealkylase
AHHD	Aryl hydrocarbon hydroxylase	MDHA	Monodehydroascorbate reductase
AKPT	Alkaline protease	MFOS	Mixed function oxidases
AKPY	Alkaline pyrophosphatase	MGAT	Magnesium adenosine triphosphatase
ALAD	(delta)-Aminolevulinic acid dehydrogenase	MLCB	Malathion carboxyleasterase
ALAS	(gamma) -ALA synthetase	MLDA	Malate dehydrogenase
ALAT	Amylolytic activity	MLTS	Maltase
ALDH	Aldehyde dehydrogenase (ALDH)	MM29	Matrix metalloproteinase 2 and Matrix metalloproteinase 9
ALDO	Aldolase	MMP2	MMP2
ALIE	Ali esterase	MMP9	MMP9
ALLN	Allantoinase activity	MNSD	Manganese superoxide dismutase (MnSOD)
ALPH	Alkaline phosphatase	MROD	Methoxyresorufin-o-deethylase
AMDC	Adenosylmethionine decarboxylase	MSRA	Methionine sulfoxide reductase
AMDM	AMP deaminase (adenosine monophosphate deaminase)	MUDH	Multiple dehydrogenases (produced by soil microorganisms)

Code	Definition	Code	Definition
AMLS	Amylase	NAAT	Sodium adenosine triphosphatase
AMNS	alpha-Mannosidase	NABH	beta-N-Acetylhexosaminidase
AMPD	Aminopeptidase	NACR	NADH-cytochrome c reductase
AMTR	Arsenite methyltransferase	NADG	beta-N-Acetyl-D-glucosaminidase
AMYL	Alpha-amylase	NADH	Nicotinamide adenine dinucleotide (reduced) (NADH)
ANAE	A-naphthyl acetate esterase	NADN	Nicotinamide adenine dinucleotide (oxidized) (NAD)
ANHG	Aniline hydrogenase	NAOX	Nicotinamide adenine dinucleotide phosphate oxidase (NADPH) Oxidase
APND	Aminopyrine n-demethylase	NATT	N-Acetyltransferase
APRT	Acid protease	NCB5	NADH cytochrome B5 reductase
APYR	Acid pyrophosphatase	NCCR	NADPH cytochrome C reductase
AREG	Arachidonate epoxygenase	NCTR	Nicotinamide transferase
ARES	Arylesterase	NDDP	NADH-DT-diaphorase
ARGN	Arginase	NDFC	NADH ferricyanide reductase
ARHY	Aromatic hydroxylase	NDFH	NADPH- ferrihemoprotein reductase
ARMT	Aromatase	NDFR	NADH ferrichrome reductase
ARSN	Argininosuccinate synthetase	NDMT	N-Demethylase
ASAT	Aspartate aminotransferase	NDPK	Nucleoside diphosphate kinase
ASCP	Ascorbate peroxidase	NE24	Neutral endopeptidase 24.11
ASOA	Ascorbic acid oxidase activity	NEES	Neurotoxic esterase
ASPT	Arylsulfatase	NITG	Nitrogenase
ATAS	Alanine aminotransferase Aspartate aminotransferase ratio	NKAT	Sodium potassium ATPase
ATPA	Adenosine triphosphatase activity	NNDE	Nitrosamine-N-demethylase
ATRP	Alanine transpeptidase	NNTR	NADPH-tetrazolium reductase
ATYL	n-Acetylglucosaminidase	NOSZ	Nitric oxide synthase
AZOR	Azo-reductase	NPHL	p-Nitrophenol hydroxylase
B5P4	b5/P-450	NRDT	Nitrate reductase
BADH	Benzaldehyde dehydrogenase	NRED	Nitroreductase
BAMY	beta-Amylase	NSES	Non-specific esterases

Code	Definition	Code	Definition
BAPH	Benzo(a)pyrene hydroxylase	NTRD	Nitrite reductase
BAPM	Benzo(a)pyrene monooxygenase	NURH	NADH:ubiquinone reductase (H(+)-translocating)
BATS	ATP synthase beta chain	O1LH	omega-1-Laurate hydroxylase
BCHE	Butyrylcholinesterase	O2LH	omega-2-Laurate hydroxylase
BCOD	Butoxycoumurin O-dealkylase	OAHL	O-Acetylhomoserine (thiol)-lyase
BFCD	7-Benzyloxy-4-trifluoromethylcoumarin O-debenzylase	OLHD	omega-Laurate hydroxylase
BGAL	beta-Galactosidase	OOAT	Ornithine-Oxo-Acid Transaminase
BGCR	beta-Glucuronidase	ORCT	Ornithine carbamoyl transferase
BGMD	beta-Glucosaminidase	ORDC	Ornithine decarboxylase
BGSE	beta-Glucosidase	P1A1	Cytochrome P-450 1A1
BHST	Betaine homocysteine S-methyltransferase	P2B1	Cytochrome P450 2B1 (CYP2B1)
BHXA	Benzpyrene hydroxylase	P420	Cytochrome P-420
BN4H	Bunitrolol 4-hydroxylase	P450	Cytochrome P-450
BPND	Benzphetamine-n-demethylase	P5CR	Pyrroline-5-carboxylate reductase
BROD	Benzylresorufin O-deethylase	P6BH	Progesterone 6beta-hydroxylase
C116	Cytochrome P450 2C11/6	PACA	Palmitoyl-CoA
C1A2	Cytochrome P-450 1A2	PAEA	Palmitoyl-CoA:estradiol acyltransferase
C1B1	Cytochrome P450 1B1	PAPN	Papain
C2A6	Cytochrome P450 2A6	PARP	NAD(+) ADP-ribosyltransferase
C2C6	Cytochrome P450 2C6	PBES	Phenyl benzoate esterase
C2D6	Cytochrome p-450 cyp2d6	PBHD	Pentobarbital hydroxylase
C2E1	Cytochrome P450 2E1	PCCX	Picolinate carboxylase
C2K1	Cytochrome P450 2K1	PCES	Pectinesterase
C2M1	Cytochrome P450 2M1	PCLX	Picoline carboxylase
C3A1	Cytochrome P450 3A1 (CYP3A1)	PCOD	Propoxycoumarin O-dealkylase
C3C7	Caspase3 Caspase7 ratio	PCTN	Pectinase activity
C7A1	Cholesterol 7-alpha-Hydroxylase	PDA3	Protein disulfide-isomerase A3
CA27	Cytochrome P450 3A27	PDPT	Phosphatidate phosphatase

Code	Definition	Code	Definition
CAAH	Carbonic anhydrase	PDSI	Protein disulfide-isomerase
CACA	Choline acetyltransferase	PFRC	Phosphofructokinase
CACP	Ca2+/calmodulin-dependent protein kinase	PGES	Prostaglandin-endoperoxide synthase
CAPK	Choline phosphokinase	PGKS	Phosphoglycerate kinase
CATE	Chloramphenicol O-acetyltransferase	PGP1	Pyroglutamyl-peptidase I
CATP	Calcium adenosine triphosphatase (ATPase) [calcium ATPase]	PGTP	G-protein GTPase, heterotrimeric
CB2P	Sb:cb283	PHBG	Porphobilinogen
CBEE	Carboxylesterase	PHGP	phospholipid-hydroperoxide glutathione peroxidase (PHGPx)
CCAT	Calcium carbonate adenosine triphosphotase	PHLA	Phosphorylase A
CCCS	Cytochrome c oxidase citrate synthase ratio	PHLB	Phosphorylase B
CCOV	Cytochrome c oxidase subunit IV	PHLC	Phospholipase C
CCOX	Cytochrome C-oxidase	PHLD	Phenoloxidase
CECD	3-Cyano-7-ethoxycoumarin O-deethylase	PHLL	phenylalanine ammonia lyase
CEST	Cholinesterase	PHPD	Phospholipase D
CGNS	Collagenase	PHTS	Phosphatase
CLES	Cholesterol esterase	PKSA	cAMP-dependent protein kinase
CLLS	Cellulase	PKSC	Protein kinase C
CMAT	Calcium Magnesium adenosine triphosphatase	PLA2	Phospholipase A2
CMYS	Chymotrypsin	PMAP	p38 Mitogen-activated protein kinase
CP1A	Cytochrome P1A	PNAC	para-Nitrophenyl acetate carboxylesterase
CPCY	Choline phosphate cytidylyltransferase	PNAD	p-Nitroanisole demethylase
CPDE	Cytochrome P450-dependent O-deethylation activity	PNOD	para-Nitrophenetole-o-deethylase
CPOD	Cytochrome P450 dependent O-demethylase	PNPP	4-Nitrophenylphosphatase
CPPO	Coproporphyrinogen oxidase	PODA	Peroxidase activity

Code	Definition	Code	Definition
CPPT	Cholinephosphotransferase	PPBD	Porphobilinogen deaminase
CPTO	Carnitine O-palmitoyltransferase	PPCM	Phosphoglucomutase (alpha-D-glucose-1,6-bisphosphate-dependent)
CRKI	Creatine kinase	PPDE	Phosphodiesterase
CRLP	Ceruloplasmin activity	PPDO	Prolyl hydroxylase
CSP3	Caspase 3	PPHL	Phosphorylase
CSP8	Caspase 8	PPID	Peptidylprolyl isomerase D
CSYN	Citrate synthase	PPOX	Polyphenol oxidase
CTHB	Cathepsin b	PPPA	Phosphoenolpyruvic acid
CTHD	Cathepsin d	PPPC	Phosphoenol pyruvate carboxylase
CTHP	Cathepsin	PPSN	Pepsin
CTLS	Catalase	PPVH	Phosphopyruvate hydratase
CTMT	Catechol o-methyltransferase	PRCE	Protein C (activated)
CTNS	Chitinase	PROD	Pentylresorufin O-deethylase
CUAT	Cu2+-exporting ATPase	PRTA	Proteolytic activity
CY2B	Cytochrome P2B (CYP2B)	PRTS	Protease
CY2C	Cytochrome P-450 CYP2C	PRTX	Protoporphyrinogen Oxidase
CYAM	Cystine aminopeptidase	PSPM	Phosphoamidase
CYB5	Cytochrome B-5	PTCS	Phytochelatin synthase activity
CYCC	Cytochrome c + c1	PXPK	Pyridoxal Phosphokinase
CYOX	Chlorpyrifos-oxonase	PYKN	Pyruvate kinase
CYP2	Cytochrome P2	PYRC	Pyruvate carboxylase
CYP3	Cytochrome P3A	PYST	Phytochelatin synthase
CYST	Cysteine dioxygenase	QNPT	Quinolinate phosphoribosyltransferase
CYTA	Cytochrome P450A	QORD	Quinone oxidoreductase
CYTB	Cytochrome b	REHL	Retinyl Ester Hydrolase
CZSD	Copper zinc superoxide dismutase	RHDS	Rhodanese
D6DS	Delta-6-desaturase	RNIN	Renin
DBFD	Dibenzylfluorescein dealkylase	RNPH	5'-Ribonucleotide phosphohydrolase

Code	Definition	Code	Definition
DBHD	delta-5-3-beta hydroxysteroid dehydrogenase	RNSE	RNase
DBHX	Dopamine beta-hydroxylase	RUBI	Bisphosphate carboxylase/oxygenase (Rubisco)
DCM1	DNA (cytosine-5-)-methyltransferase 1	S17A	Steroid 17-alpha-hydroxylase/17,20 lyase
DCNS	(+)-delta-Cadinene synthase	SADT	Sulfate adenylyltransferase
DEAS	Dehydroascorbatase	SBDH	Sorbitol dehydrogenase
DHAO	Dehydroascorbate reductase	SCDH	Succinate dehydrogenase
DHYD	NADPH dehydrogenase	SCMT	Selenocysteine methyltransferase
DHYG	Dehydrogenase	SCRS	Sucrose synthase
DMAG	Dimethylargininase	SFTA	Sulfotransferase
DNSE	Deoxyribonuclease II	SGOT	Serum glutamate oxalo acetate transaminase
DSCA	Diethylsuccinase	SGPT	Serum glutamic pyruvic transaminase
DTDP	DT-diaphorase	SGPX	Selenium dependent glutathion peroxidase
E20M	Ecdysone 20-monooxygenase	SODA	Superoxide dismutase (SOD) enzyme activity
ECOD	Ethoxycoumurin O-deethylase	SOXE	Sulfite oxidase
EMDL	Erythromycin N-demethylase	SPGX	Selenium dependant glutathione peroxidase
ENCL	Endocellulase	SRDT	Serine dehydratase
ENDC	Endochitinase	SSAR	SGOT & SPGT to ALPH ratio
ENDM	Ethylmorphine-n-demethylase	SSRA	SGOT to SPGT ratio
ENGC	Endoglucanase	SSTT	steryl-sulfatase
EPHY	Epoxide hydrase	STCS	Starch synthase
EPND	EPN (O-Ethyl-O-p-nitrophenyl phenylphosphonothionate) detoxification	STPK	Non-specific serine/threonine protein kinase
ERKM	Extracellular Signal-Regulated MAP Kinases	SUPS	Sucrose phosphate synthase
EROD	7-Ethoxyresorufin O-deethylase	T15A	Testosterone 15-alpha hydroxylase
ESLI	Esterase lipase	T15B	Testosterone 15-beta hydroxylase

Code	Definition	Code	Definition
ESST	Estradiol sulfotransferase	T16A	Testosterone 16-alpha hydroxylase
ESTE	Esterase	T23D	Tryptophan 2,3-dioxygenase
ESTS	Elastase	T2BH	Testosterone 2beta-hydroxylase
EXCL	Exocellulase	T3GL	Triiodotyrosine (T3) Glucuronidation
F16D	Fructose 1,6-diphosphatase	T4GL	L-Thyroxine (T4) Glucuronidation
F6PD	Fructose-6-phosphate dehydrogenase	T5D1	Type I iodothyronine deiodinase
FAAH	Fatty acid amide hydrolase	T5D2	Type II iodothyronine deiodinase
FADE	Fatty acyl desaturase	T5D3	Thyroxine 5-deiodinase
FASC	Fatty acid synthase complex	TAMN	Transaminase
FDPA	Fructose-diphosphate aldolase	TATS	Tyrosine aminotransferase
FECH	Heme synthetase	TBHY	Testosterone 16 beta-hydroxylase
FESD	Iron superoxide dismutase	TC6H	Taurochenodeoxycholate 6alpha-hydroxylase
FMOO	Flavin-containing monooxygenase	TDPD	Thioredoxin peroxidase
FNIR	Ferredoxin-nitrite reductase	TDRS	Thioredoxin reductase
G31A	Glycerol-3-phosphate 1-O-acyltransferase	THMN	Thiaminase
G6PD	Glucose-6-phosphate dehydrogenase	THTR	Thiol transferase
G6PT	Glucose-6-phosphatase	TKNS	Tyrosine kinases
GAPD	Glyceraldehyde 3-phosphate dehydrogenase	TPHX	Tryptophan hydroxylase
GCOX	Glycolate oxidase	TPIM	Triosephosphate isomerase
GCTA	Glucosyltransferase	TPOX	Tryptophan oxidase
GD6D	Glucose-6-phosphate dehydrogenase : 6-phosphogluconate dehydrogenase ratio	TPS2	Trypsin 208
GENZ	Enzyme activity	TPSY	Trypsin
GGCS	gamma-Glutamylcysteine synthetase	TRBA	Tributyrinase
GGSD	L-glutamate gamma-semialdehyde dehydrogenase	TRHL	Trehalase
GGTP	gamma-glutamyl transpeptidase	TRIE	Triacetin esterase
GGTR	(gamma) -glutamyl transferase	TSHX	Tyrosine hydroxylase
GLAD	Glutamic acid dehydrogenase	TSKT	Transketolase

Code	Definition	Code	Definition
GLKN	Glucokinase	TSST	Testosterone sulfotransferase
GLMC	Glutamate decarboxylase	TT2A	Testosterone 2-alpha hydroxylase
GLMD	Glutamate dehydrogenase	TT6A	Testosterone 6-alpha hydroxylase
GLMS	Glutamine synthetase	TT6B	Testosterone 6-beta hydroxylase
GLMT	Glutamate transferase	TT7A	Testosterone 7-alphahydroxylase
GLPP	Glycogen phosphorylase	TTRH	Testosterone hydroxylase
GLPX	Glutathione peroxidase	TUOX	Thiourea oxygenase
GLRE	Glutathione reductase	TYKN	Thymidine kinase
GLTN	Gelatinase	TYPT	Tryptase
GLTR	Glucuronyl transferase	UCKN	UMP/CMP kinase
GLUT	Glutaminase	UDPG	UDP glucose pyrophosphorylase
GLYD	Glyceraldehyde dehydrogenase	UDPT	Uridine diphosphate glucuronyl transferase, UDP glucuronyl transferase
GMCS	gamma-Cystathionase	UP3S	Uroporphyrinogen III synthase
GMPP	Cyclic guanylic acid phosphodiesterase	UPDC	Uroporphyrinogen decarboxylase
GMSN	Glutamate synthase (NADH)	UPIS	Uroporphyrinogen I synthetase
GNMT	Glycine N-methyltransferase	URON	Uronolactonase
GOPG	Glutamate Oxaloacetate Transaminase to Glutamic Pyruvic Transaminase ratio	URSE	Urease activity
GOTR	Glutamic-oxaloacetic transaminase	USP5	Ubiquitin specific protease 5
GPIM	Glucose phosphate isomerase	VAAM	Valine aminopeptidase
GPTR	Glutamic pyruvic transaminase	XBME	Xenobiotic metabolizing enzymes
GSCT	gamma-Secretase	XODA	Xanthine oxidase, XOD
GSNP	Glutamate synthase (NADPH)	XTAP	Xenobiotic-transporting ATPase
		XTDH	Xanthine dehydrogenase

HRM Hormone

Code	Definition	Code	Definition
11BA	11 beta-Hydroxyandrostenedione	ESTR	Estrogen (Oestrogen)

Code	Definition	Code	Definition
11BT	11beta - Hydroxytestosterone	FHBU	Follicle Stimulating Hormone, beta Subunit
11DC	11-Deoxycortisol	FOSH	Follicle stimulating hormone
15AP	15-alpha-Hydroxyprogesterone	G11K	Glucuronidated 11-Ketotestosterone
15AT	15-alpha-Hydroxytestosterone	GAST	Gastrin
15BH	15 Beta-hydroxytestosterone	GBDP	Glucoronidated 17,20beta-Dihydroxy-4-pregnen-3-one
16AH	16-alpha-Hydroxytestosterone	GCRT	Glucocorticoid
16AT	16alpha-Testosterone	GHAU	Glycoprotein Hormones, alpha Subunit
16BH	16 beta-Hydroxytestosterone	GHRL	Ghrelin
18HC	18-Hydroxycorticosterone	GHRM	Hormone, general changes in
18HD	18-Hydroxy-11-deoxycorticosterone	GIBB	Gibberellin
19HD	19-Hydroxytestosterone	GNTP	Gonadotropin
2AHT	2-alpha-Hydroxytestosterone	GRHM	Gonadotropin releasing hormone
2BHT	2-beta-Hydroxytestosterone	GTHH	Growth hormone
4TO3	L-thyroxine outer ring 5'-monodeiodination	HCHH	Hyperglycemic hormone, crustacean
5A3D	5-Androstene-3alpha(beta),17beta-diol	HEDS	20-hydroxyecdysone
5AAD	5alpha-Androstene-3alpha(beta),17beta-diol	HZ11	(Z)11-Hexadecenal:
5HST	5-Hydroxyindole acetic acid:serotonin	IAIA	N6(delta2-Isopentenyl)adenine to N6(delta2-Isopentenyl)adenoside ratio
6AHT	6-alpha-Hydroxytestosterone	INHB	Inhibin B
6BHT	6-beta-Hydroxytestosterone	INHI	Inhibin
6BTT	6beta-Testosterone	INSL	Insulin
7AHT	7-alpha-Hydroxytestosterone	IPTH	Immunoreactive parathyroid hormone
7ATT	7alpha-Testosterone	KTST	11-Ketotestosterone
ABBD	4-Androstene-3beta,17beta-diol	LHBU	Luteinizing Hormone, beta Subunit
ABPT	Androgen binding protein	LPTN	Leptin
ABSA	Abscisic acid	LUTH	Luteinizing hormone
ACTH	Adrenocorticotropic hormone	ME4T	Total 4a- methylsterols
ADDL	Androstanediol	MELA	Melatonin

Code	Definition	Code	Definition
ADDN	Androstenedione	MITS	Monoiodotyrosine
AHPG	17 alpha-Hydroxyprogesterone	MTSR	Melatonin to Serotonin ratio
ALDS	Aldosterone	NORE	Norepinephrine
AMSH	alpha-Melanocyte stimulating hormone	OBCL	Orobanchol
ANDR	Androgen	PHRM	Pheromone
ASTN	Androstenone	PNMT	Phenylethanolamine N-methyl transferase
AUXN	Auxin	PRGN	Pregnenolone
BDPG	17,20beta-Dihydroxy-4-pregnen-3-one	PRGS	Progesterone
BOES	beta-Oestradiol	PRLC	Prolactin
CCTN	Calcitonin	PTHH	Parathyroid hormone (PTH)
CORT	Corticosterone (Corticoid)	S11K	Sulfated 11-Ketotestosterone
CRCT	Cortisol and Cortisone	SBDP	Sulfated 17,20-beta-Dihydroxy-4-pregnen-3-one
CRFF	Corticotropin Releasing Factor	SMMD	Somatomedins
CRSN	Cortisone	SMTC	Somatomedin C
CRTS	Cortisol	SRIF	Somatostatin
CTCL	Catecholamine	SRTN	Serotonin
CYTK	Cytokinin	ST5T	Total (delta)5- sterols
DECL	11-Deoxycortisol glucuronide	ST8T	Total (delta)8- sterols
DHEA	Dehydroepiandrosterone	STRD	Steroids
DHPT	17alpha,20beta-dihydroxyprogesterone	STRG	Strigolactones
DHTR	Dihydrotestosterone	STST	Sulfated Testosterone
DITS	Diiodotyrosine	T3T4	Triidothyronine (T3) to thyroxine (T4)
DOCS	Deoxycorticosterone	T4T3	Thyroxine:Triiodothyronine
DOPA	Dopamine	TGLD	Testosterone glucuronide
ECDS	Ecdysteroids	THYR	Thyroxine
ECDY	Ecdysone	TRHH	Thyrotropin Releasing Hormone
ELTR	17beta-Estradiol:Testosterone ratio	TRII	Triiodothyronine

Code	Definition	Code	Definition
EPIN	Epinephrine	TSHT	Thyrotropin
EPNO	Epinephrine to norepinephrine ratio	TSTR	Testosterone
ERTP	Erythropoietin	TT34	Triiodothyronine and Thyroxine
ESDL	17-beta Estradiol	TZRS	trans-Zeatin riboside
ESKE	17beta-Estradiol:11-Ketotestosterone ratio	VASO	Vasopressin
ESTO	Estrone	ZZRR	Zeatin to Zeatin riboside ratio

GRO Growth Group

DVP Developmental

Code	Definition	Code	Definition
68CL	6-8 Cell stage	FURR	Fur Development
AAFR	Age at first reproduction	GDVP	Developmental changes, general
ABNM	Abnormal	GRRT	Growth rate
ANGG	Angiogenesis	GSTL	Gastrulation
AOPT	Anophthalmia	INCT	Incubation time
BSCY	Blastocyst stage	LRCF	Loricae formation
CCLV	Cell cleavage	MATR	Maturity
CLFT	Cleft palate	MMPH	Metamorphosis
COAT	Coat development	MOLT	Molting
COLR	Color	MOPT	Microphthalmia
CORK	Cryptorchidism	MRLA	Morula stage
DFRM	Deformation	NORM	Normal
DNSY	Density	PHRN	Postharvest character no effect
DVLP	Slowed, Retarded, Delayed or Non-development	PHRV	Post harvest character influenced
EARO	Ear opening	PUPA	Pupation
EARP	Ear pinna detachment	RSPN	Resorption
EBCN	Effective body concentrations	STGE	Stage

Code	Definition	Code	Definition
EMRG	Emergence	SXDP	Sexual development
ENDD	Endoderm differentiation	TEMR	Time to first emergence
EVFO	Envelope formation	TERA	Teratogenic measurements
EYOP	Eye opening	TFLW	Time to flower
FIRM	Firmness	THED	Time to heading
FLDG	Fledged/female or /brood	TRRA	Transformation ratio
FLWD	Duration of Flowering	WEAN	Weaned
FORM	Organ/tissue formation	WGHT	Weight
		YLKA	Yolk sac absorption, Yolk sac utilization

GRO Growth

Code	Definition	Code	Definition
ABNM	Abnormal	NGAN	Net gain
AREA	Area	NLEF	Number of leaves
BDBN	Body burden	NNOD	Dry mass / plant roots non-nodulated
BMAS	Biomass	NODE	Number of nodules/nodulated plant roots
COND	Condition index	NROT	Number of roots
CRCM	Circumference	PMTR	Perimeter
DIST	Distance	RADI	Radius
DMTR	Diameter	RGNR	Limb/ body part regeneration
DNSY	Density	RLGR	Relative growth rate
DWGT	Dry weight (AQUIRE only)	SIZE	Size
EBCN	Effective body concentrations	SPGR	Specific growth rate
GAIN	Weight gain	STNT	Stunting
GGRO	Growth, general	THIK	Thickness
GGRT	General growth rate	THRV	Time to harvest
GREI	Growth efficiency index	VGOR	Vigor
GRRT	Growth rate	VOLU	Volume
HGHT	Height	WDTH	Width

Code	Definition	Code	Definition
LGTH	Length	WGHT	Weight
LGWR	Length to weight ratio	WTLR	Weight to Length ratio
LINT	Lint	WWGT	Wet weight (AQUIRE only)

MPH Morphology

Code	Definition	Code	Definition
ABDS	Apex to base distance	OSTD	Osteoid
ABNM	Abnormal	PMTR	Perimeter
ABST	Absence, absent	POSC	Parietal ossification
ANGG	Angiogenesis	PULP	Pulp
AREA	Area	QNTY	Quantity
BVSL	Blood vessels	RADI	Radius
CAWT	Calcium weight	RATO	Ratio
COND	Condition index	RIBS	Number of ribs
COSC	Caudal ossification center	SFRB	Supernumerary full rib
CRCM	Circumference	SHPE	Shape
CTTK	Ratio of cortical thickness to diameter	SIZE	Size
DEPO	Shell deposition	SMIX	Organ weight in relationship to body weight
DMTR	Diameter	SMTE	Somite
DNSY	Density	SOSC	Sternal ossification center
FSSR	Fissure	SRIB	Supernumerary ribs
GMPH	General morphological changes	SSRB	Short supernumerary rib
HGHT	Height	STBD	Seminiferous tubule diameter
IMPS	Imposex, intersex conditions	STGE	Stage
INTS	Intussusception	STRC	Structural changes
IPOS	Inter-parietal ossification	STTO	Strength and tone
LFLV	Lens focal length variability	SVTE	Supernumerary vertebrae
LGTH	Length	THIK	Thickness

Code	Definition	Code	Definition
MOSC	Metacarpal ossification center	TKWD	Thickness:width
NLRG	enlargement	VOLU	Volume
NORM	Normal	WDTH	Width
OSSC	Ossification	WEAR	Wearing
		WGHT	Weight

CEL Cellular Group

CEL Cellular

Code	Definition	Code	Definition
AGGR	Aggregation/adhesion	LYPB	Lymphoblast
AGLT	Agranulocyte	MAST	Mast Cells
AHRC	Aryl Hydrocarbon Receptor	MONO	Monocyte
ANGR	Androgen Receptors	MPGC	Macrophage
AREA	Area	MTMC	Metamyelocyte
ARGY	Argyophilic cells	MUCR	Muscarinic cholinergic receptor
BADR	Beta-adrenergic receptor	MYCT	Myocyte
BASO	Basophil	MYLO	Myelocyte
BCEL	B-cell	NCCM	Normochromatic cells, micronucleated
BPCL	Bipolar cell	NCEL	Number of cells
BSNC	Basophilic normoblast (erythroblast)	NCPC	Micronucleated Normochromatic cell to micronucleated Polychromatic cell ratio
BWDD	Blood-water diffusion distance	NCRC	Nicotinic receptors
CCHG	Cell changes	NESR	Nuclear Estrogen Receptor
CDRT	Cell division rate	NEUT	Neutrophil
CESR	Cytosolic Estrogen Receptor	NLCR	Neutrophil Lymphocyte cell ratio
CILR	Ciliated type II receptors	NLEI	Nuclei
CIRC	Choline acetyltransferase (ChAT) immunoreactive cells	NMDR	NMDA Receptor
CLCE	Chloride cell	NRBC	Nucleated red blood cells
CMGR	Cell migration	NROD	Rods

Code	Definition	Code	Definition
CRCM	Circumference	NTRR	Neutrophil and Thrombocyte to Red blood cell ratio
CTRV	Cell turnover	OCNC	Orthochromatic normoblast (erythroblast)
CVIA	Cell Viability	OGNL	Organelle changes
CYTO	Cytotoxicity	OSCT	Osteoclast
DEND	Dendrite receptors	OSRS	Osmotic resistance/ RBC
DIVC	Dividing cells	PCCM	Polychromatic cells, micronucleated
DMTR	Diameter	PCNC	Ratio of polychromatic to normochromatic micronucleated cells
DNSY	Density	PCRC	Polychromatic cells
DPTH	Depth	PGRC	Progesterone Receptor
EOSN	Eosinophil	PKNJ	Purkinje cells
ERTH	Erythroblasts	PKNS	Pyknosis
ESRB	Estrogen Receptor Beta	PLAS	Plasmolysis
ESRS	Estradiol receptor sites	PMNC	Polymorphonuclear cells
FLEX	Flexibility	PNBL	Pronormoblast
FOCI	Foci	PRKY	Perikarya
GABR	gamma aminobutyric acid receptor	PSMC	Plasma cells
GBLT	Goblet cells	RATO	Ratio
GLCL	Gland cells	RBCE	Red blood cell
GLCR	Glucocorticoid receptor	RDCP	Relative diffusing capacity
GNDT	Gonadotrophs	RETI	Reticulocytes
GRAN	Granulocyte	ROXB	Reactive oxygen species scavenging capacity
GRCN	Germinal Center	RSBC	Receptor site binding capacity
GTIM	Generation time	RTMC	Reticulum cell
HCYT	Hemocyte	SGDN	Signal density
HGHT	Height	SIZE	Size
HLCR	Heterophil to lymphocyte cell ratio	SPLO	Splenocytes
HMPS	Hematopoiesis	SRTL	Sertoli cells
HSCS	Hematopoietic stem cells	STCL	Stippled cells

Code	Definition	Code	Definition
HTCY	Heterocyst frequency	STRC	Structural changes
HTPL	Heterophiles	TCEL	T-cell
HYAL	Hyalinocyte	TCRA	T-cell receptor ab (TCR)
ILDS	Interlamellar distance	THRM	Thrombocytes
LEUK	Leukocytes	TWBC	White blood cell count, total
LGTH	Length	UBWB	White blood cell, undifferentiated blasts
LMFI	Lamellar fusion index	VIAB	Viability
LMPH	Lymphocyte	VOLU	Volume
LRBR	Lymphocyte to Red blood cell ratio	WBCI	White blood cell index
		WDTH	Width

GEN Genetic

Code	Definition	Code	Definition
10BM	Fatty acid-binding protein 10b mRNA	HSER	Heparanase mRNA
10FM	Fatty acid-binding protein 10-A, liver basic mRNA	HSPM	Heat shock protein 70 precursor mRNA
11AM	Fatty acid binding protein 11a mRNA	HSSM	Heparan sulfate N-deacetylase/ N-sulfotransferase mRNA
11BR	CYP11beta mRNA	HT7M	Heat shock protein 20.7 mRNA
12BR	17 beta-hydroxysteroid dehydrogenase type 12 mRNA	HTZY	Heterozygosity
136M	Ribosomal protein 136a mRNA	HX1R	Homeobox A10b mRNA
14AM	Apolipoprotein 14 kDa mRNA	HX4R	Homeobox B4a mRNA
17BM	CYP17B mRNA	HX5R	Homeobox B5b mRNA
17BR	17 beta-hydroxysteroid dehydrogenase type 11 mRNA	HXSM	Hexosaminidase mRNA
18RM	18S Ribosomal RNA mRNA	HYPM	Hymenoptaecin mRNA
1A4M	Cytochrome P450 1A4 mRNA	I10R	Interleukin 10 mRNA
1IDM	Type I iodothyronine deiodinase mRNA	I12A	Interleukin 12a mRNA

Code	Definition	Code	Definition
20BM	20 beta-Hydroxysteroid dehydrogenase mRNA	I12B	Interleukin 12b mRNA
21PM	p21 protein mRNA	I17R	Interleukin 17 mRNA
21SM	p21-ras protein mRNA, short form	I1AM	Insulin-like growth factor receptor 1a mRNA
26AM	Cytochrome P450 26A1 mRNA	I1AR	Interleukin 1 alpha mRNA
28RM	28S ribosomal RNA mRNA	I1BM	Insulin-like growth factor binding protein 1 paralog B1 mRNA
2E1R	CYP2E1 mRNA	I1BR	Interleukin 1 beta mRNA
2IDM	Type II iodothyronine deiodinase mRNA	I2AM	Insulin-like growth factor receptor 1b mRNA
2K1R	CYP2K1 mRNA	I3MR	Interleukin 3 mRNA
2KMR	Cyp2K mRNA	I3SM	Inositol-3-phosphate synthase mRNA
2M1R	CYP2M1 mRNA	I4MR	Interleukin 4 mRNA
2ODM	2-Oxoglutarate dehydrogenase, mitochondrial-like mRNA	I6MR	Interleukin 6 mRNA
2PSM	2-Pyrone synthase mRNA	I8MR	Interleukin 8 mRNA
314M	Cytochrome P450 CYP314 family-like protein mRNA	IA1M	Interferon alpha 1 mRNA
336M	CYP336A1 mRNA	IA1R	Insulin-like growth factor binding protein 1a mRNA
33ZM	14-3-3 protein zeta mRNA	IB1M	Insulin-like growth factor binding protein-1 mRNA
3A1M	Cytochrome P450 301A1 mRNA	IB1R	Insulin-like growth factor binding protein 1b mRNA
3A27	CYP3A27 mRNA	IDHM	Isocitrate dehydrogenase [NADP], mitochondrial precursor mRNA
3HMM	3-Hydroxy-3-methylglutaryl coenzyme A reductase mRNA	IF1M	Interferon gamma 1 mRNA
3IDM	Type III iodothyronine deiodinase mRNA	IF2M	Interferon gamma 2 mRNA
4S1M	CYP4BS1 mRNA	IFAM	Intestinal fatty acid-binding protein mRNA
4S2M	CYP4BS2 mRNA	IFGR	Interferon gamma mRNA
4S3M	CYP4BS3 mRNA	IFRM	Insulin-like growth factor 1 receptor mRNA

Code	Definition	Code	Definition
4T1M	CYP4BT1 mRNA	IG1M	insulin-like growth factor 1 mRNA
4U1M	CYP4BU1 mRNA	IG2M	insulin-like growth factor 2 mRNA
4U2M	CYP4BU2 mRNA	IGHM	Immunoglobulin heavy chain, partial cds mRNA
4V1M	CYP4BV1 mRNA	IGLR	Integrin alpha-L mRNA
57AM	CYP357A1 mRNA	IGMR	Immunoglobin M mRNA
58AM	CYP358A1i mRNA	IL2R	Interleukin-2 mRNA
5AAM	Nuclear receptor subfamily 5 group A member 1a mRNA	ILRM	Interleukin receptor mRNA
5ABM	Nuclear receptor subfamily 5, group A, member 1b mRNA	IM1M	Interferon-induced GTP-binding protein Mx1 mRNA
5ASM	5-Aminolevulinate synthase mRNA	IN2M	Innexin 2 mRNA
5HAM	5-Hydroxytryptamine receptor 1A mRNA	INS3	insl3 (insulin-like peptide 3) mRNA
5HTM	5-Hydroxytryptamine receptor mRNA	IOLM	Inositol oxygenase-like mRNA
5NTM	5'-Nucleotidase, ecto (CD73) mRNA	IR4M	Interleukin-1 receptor-associated kinase 4 mRNA
5R2M	5alpha-reductase 2 mRNA	ISPM	Iron starvation induced protein mRNA
5RMR	5alpha-reductase 1 mRNA	ISTM	Isotocin mRNA
6F1M	CYP6CF1 mRNA	ITFM	Interferon mRNA
6G1M	CYP6CG1 mRNA	JHAM	Juvenile hormone esterase isoform A mRNA
6G2M	CYP6CG2i mRNA	JTKM	c-Jun NH(2)-terminal kinase mRNA
6G4M	CYP6CG4i mRNA	JZFR	Juxtaposed with another zinc finger protein 1 mRNA
6J1M	CYP6CJ1 mRNA	K1AM	Kelch-like ECH-associated protein 1a mRNA
6PGM	6-Phosphogluconate dehydrogenase, decarboxylating mRNA	K1BM	Kelch-like ECH-associated protein 1b mRNA
72CM	72 kDa type IV collagenase mRNA	KNGM	Kringle mRNA
7DRM	7-Dehydrocholesterol reductase mRNA	KSPR	Kazal-type serine peptidase inhibitor domain 2 mRNA

Code	Definition	Code	Definition
90BM	Heat shock protein 90kDa alpha (cytosolic), class B member 1 mRNA	KT8M	Keratin 8 mRNA
9E2M	Cytochrome P450 9e2 mRNA	L13M	Lipopolysaccharide and beta-1,3-glucan binding protein mRNA
A11M	Annexin A11 mRNA	L14M	Lanosterol 14-alpha demethylase mRNA
A14M	Apidaecins type 14 mRNA	L2GM	Protein lethal(2) giant larvae mRNA
A1AR	Aryl hydrocarbon receptor nuclear translocator-like 1a mRNA	L3LM	Lipase 3-like mRNA
A1BM	Annexin A1b mRNA	L8CR	Probable lipoxygenase 8, chloroplastic mRNA
A21M	Adenosine deaminase CECR1-A mRNA	LAPR	L-ascorbate peroxidase 1, cytosolic mRNA
A22M	Cat eye syndrome chromosome region, candidate 1b mRNA	LBKM	Lumbrokinase mRNA
A26M	Ovulin mRNA	LC3M	Microtubule-associated protein 1 light chain 3 beta mRNA
A2BM	Aldehyde dehydrogenase 2b mRNA	LCMR	Laccase mRNA
A2BR	Aryl hydrocarbon receptor nuclear translocator-like 1B mRNA	LCTR	Leucine Specific tRNA
A2MM	alpha-2 Microglobulin mRNA	LDAR	L-lactate dehydrogenase A chain mRNA
A2MR	Alpha-2-macroglobulin mRNA	LDBR	Lactate Dehydrogenase B mRNA
A4BM	Autophagy-specific gene 4b mRNA	LDRM	Low-density lipoprotein receptor mRNA
A5AM	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle mRNA	LEPT	Leptotene
AA1M	Apolipoprotein A1 mRNA	LFNR	lactoferrin mRNA
AA1R	Adenosine A1 receptor mRNA	LG2M	Laminin G, subdomain 2 mRNA
AA4M	Apolipoprotein A4 mRNA	LH1R	Luteinizing hormone beta 1 mRNA
AAAM	Peroxisome proliferator-activated receptor alpha a mRNA	LHAM	Lipase member H-A-like mRNA
AABM	Apolipoprotein B mRNA	LHAR	Luteinizing hormone alpha-subunit mRNA
AACM	Acetyl-CoA acetyltransferase, cytosolic mRNA	LHBR	Luteinizing hormone beta-subunit mRNA
AADM	Acyl-CoA Delta(11) desaturase-like mRNA	LHGR	Luteinizing hormone/choriogonadotropin receptor (LHCGR) mRNA

Code	Definition	Code	Definition
AAEM	Apolipoprotein E mRNA	LHMR	Lutenizing hormone mRNA
AAGR	Alpha globin mRNA	LHPM	LIM/homeobox protein Lhx3 mRNA
AALM	Apolipoprotein L mRNA	LHRM	Luteinizing hormone receptor mRNA
AAMR	Aromatase A mRNA	LL2M	B-cell lymphoma/leukemia 2-gene mRNA
AAOM	Apolipoprotein O mRNA	LLDM	L-lactate dehydrogenase mRNA
AATM	alpha,alpha-Trehalase mRNA	LLRM	Low-density lipoprotein receptor associated protein mRNA
AATR	alpha-Actin mRNA	LLRN	Lipoprotein lipase mRNA
AB1M	ABC transporter B family member 1 mRNA	LMPM	Lipopolysaccharide-binding protein/mammalian bactericidal/permeability increasing protein mRNA
AB2M	ABC transporter B family member 2 mRNA	LNFM	Low molecular weight neuronal intermediate filament mRNA
AB2R	Activin beta A, isoform 2 mRNA	LPDN	Lipid to DNA ratio
AB3M	ABC transporter B family member 3 mRNA	LPSM	Lipase mRNA
AB4M	ABC transporter B family member 4 mRNA	LRIM	Leucine-rich repeats and immunoglobulin-like mRNA
AB5M	ABC transporter B family member 5 mRNA	LRMR	Leptin receptor mRNA
AB6M	ABC transporter B family member 6 mRNA	LSCM	Leucyl-tRNA synthetase, cytoplasmic-like mRNA
AB7M	ABC transporter B family member 7 mRNA	LSPM	LIM and SH3 domain protein Lasp-like mRNA
AB9R	ABCC9 mRNA	LSSM	Lanosterol synthase mRNA
ABAM	Activin beta A mRNA	LX1M	PREDICTED: leucine-rich repeat-containing protein 16A-like isoform X1 mRNA
ABBM	Activin beta B subunit mRNA	LZ1M	Lysozyme 1 mRNA
ABCM	ATP-binding cassette sub-family F member 2 mRNA	LZMR	Lysozyme mRNA
ABCR	ATP binding cassette subfamily C mRNA	M11M	Mitogen-activated protein kinase 11 mRNA
ABFM	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 mRNA	M122	miRNA 122

Code	Definition	Code	Definition
ABMM	ABC transporter ATP-binding protein McyH mRNA	M133	miRNA 133b-5p
ABMR	Aromatase B mRNA	M135	miRNA 135a
ABTM	ABC transporter mRNA	M140	miRNA 140
AC1M	Apolipoprotein C1 mRNA	M145	miRNA 145
AC1R	Adenylate cyclase type 1 mRNA	M14M	Mitogen-activated protein kinase 14 mRNA
AC2M	Apolipoprotein C2 mRNA	M15A	miRNA 15a-5p
ACBM	ATP-binding cassette transporter subfamily B mRNA	M187	miRNA 187
ACBR	Acetyl-CoA carboxylase 2 mRNA	M18M	metalloproteinase 18 mRNA
ACCR	Acetyl-CoA carboxylase 1 mRNA	M192	miRNA 192
ACHR	Acetylcholinesterase mRNA	M1AM	Metal-responsive transcription factor 1.1a mRNA
ACLM	Acetoacetyl-CoA synthetase-like mRNA	M1BM	Myeloid cell leukemia sequence 1b mRNA
ACMR	Actin mRNA	M1MR	Metallothionein-I mRNA
ACRD	Abnormal chromosomal distribution	M202	miRNA 202-5p
AD1M	Aldehyde dehydrogenase 1a1 mRNA	M204	miRNA 204
AD2M	Aldehyde dehydrogenase 2 mRNA	M216	miRNA 216b
AD3M	Aldehyde dehydrogenase 3a1 mRNA	M217	miRNA 217
AD5M	Aldehyde dehydrogenase family 5,subfamily A1 mRNA	M23A	miRNA 23a
ADAM	Adenosine deaminase mRNA	M2MR	Metallothionein-II mRNA
ADBM	Aldehyde dehydrogenase 1b1 mRNA	M338	miRNA 338
ADHD	Aldehyde dehydrogenase mRNA	M363	miRNA 363
ADHR	Alcohol dehydrogenase mRNA	M365	miRNA 365
ADPM	Adenosine deaminase-like protein mRNA	M3MR	Metallothionein-3 mRNA
AE1M	Acyl-coenzyme A oxidase 1 mRNA	M499	miRNA 499
AEDM	alpha-Enolase mRNA	M4MR	Metallothionein-4 mRNA

Code	Definition	Code	Definition
AF1M	ABC transporter F family member 1 mRNA	M728	miRNA 728
AF4R	Activating transcription factor 4 alpha mRNA	M733	miRNA 733
AF6R	Activating transcription factor 6 alpha mRNA	M84M	MGC84072 protein mRNA
AFBM	Adipocyte fatty acid-binding protein mRNA	M88M	Myeloid differentiation primary response protein MyD88 mRNA
AG1M	ABC transporter G family member 1 mRNA	M8PM	MGC132184 protein mRNA
AG2M	ABC transporter G family member 2 mRNA	M9PM	MGC81949 protein mRNA
AG3M	ABC transporter G family member 3 mRNA	MA1R	Methionine adenosyltransferase I, alpha mRNA
AG4M	ABC transporter G family member 4 mRNA	MACM	Myristoylated alanine rich protein kinase C substrate mRNA
AG5M	ABC transporter G family member 5 mRNA	MAOM	Mono amine oxidase mRNA
AG6M	ABC transporter G family member 6 mRNA	MAPM	Microtubule-associated protein mRNA
AG7M	ABC transporter G family member 7 mRNA	MB1R	Methionine sulfoxide reductase B1.1 mRNA
AG8M	ABC transporter G family member 8 mRNA	MB2M	Methyl-CpG binding domain protein 2 mRNA
AG9M	ABC transporter G family member 9 mRNA	MB2R	Methionine sulfoxide reductase B1.2 mRNA
AHAM	Aryl hydrocarbon receptor repressor a mRNA	MBPM	Myelin basic protein A mRNA
AHBM	Aryl hydrocarbon receptor repressor b mRNA	MCDM	McyD protein mRNA
AHMR	Aryl Hydrocarbon Receptor protein mRNA	MCHM	Prepro-melanin-concentrating hormone mRNA
AHRM	Adrenocorticotropic hormone receptor mRNA	MCMR	Mineralocorticoid mRNA
AHRR	aryl hydrocarbon receptor repressor (AhRR) mRNA	MCPM	m-Calpain mRNA
AI3M	Apoptosis-inducing factor 3-like protein mRNA	MCRM	Mineralocorticoid receptor mRNA

Code	Definition	Code	Definition
AIFM	Apoptosis-inducing factor mRNA	MD1M	Malate dehydrogenase 1a, NAD (Soluble) mRNA
AIMR	Solute carrier family 45, member 2 mRNA	MDAR	Monodehydroascorbate reductase mRNA
ALDM	Aromatic-L-amino-acid decarboxylase mRNA	MDHM	Malate dehydrogenase mRNA
ALDR	ATP-binding cassette, sub-family D, member 2 mRNA	ME1A	Meiotic abnormalities, 1st anaphase
ALFR	Allele frequency	ME1M	Meiotic abnormalities, 1st metaphase
AMHR	Anti-mullerian hormone mRNA	ME2A	Meiotic abnormalities, 2nd anaphase
AMLM	alpha-Amylase mRNA	ME2M	Meiotic abnormalities, 2nd metaphase
AMRN	Cytochrome P450aromB mRNA	MEDM	Meiotic abnormalities, diakinesis and 1st
AMSR	S-adenosylmethionine synthetase mRNA	MEFR	Myocyte enhancer factor 2c mRNA
AMTM	Ammonium transporter mRNA	MEIA	Meiotic abnormality
AN3M	Anoctamin 3 mRNA	MEIR	Meiosis rate
ANKA	ATPase Na+/K+ alpha 1a.4 mRNA	MEIX	Meiotic Index
AP2M	Amyloid beta (A4) precursor-like protein 2 mRNA	MEPM	Macrophage expressed protein 1-like protein mRNA
APFM	Apoptotic protease-activating factor 1 mRNA	MF5M	Myogenic factor 5 mRNA
APMM	Apolipoprotein M mRNA	MFPR	MatE family protein mRNA
APMR	Antimicrobial peptides mRNA	MG1M	Magnesium-dependent phosphatase 1 mRNA
APOP	Apoptosis, programmed cell death, DNA fragmentation	MG4M	MGC84000 mRNA
AR1M	gamma-Aminobutyric acid receptor subunit rho-1 mRNA	MGRN	Magnesium superoxide dismutase mRNA
AR1R	Aryl hydrocarbon receptor 1b mRNA	MIAT	Mitotic abnormalities, ana-telophase
AR2M	Aryl hydrocarbon receptor 2 mRNA	MIBC	Mitotic abnormalities, binucleate cell
AR2R	Aryl hydrocarbon receptor nuclear translocator 2 mRNA	MIBG	Mitotic abnormalities, bridge
ARAM	Androgen receptor alpha mRNA	MICL	Mitotic abnormalites, clumping
ARBM	Activin receptor IIB mRNA	MICY	Mitotic abnormalities, cytomixis

Code	Definition	Code	Definition
ARCM	Arrestin-C mRNA	MIES	Mitotic abnormalities, early separation
AREM	Androgen receptor beta mRNA	MIEX	Mitotic abnormalities, exclusion
ARFM	ADP ribosylation factor mRNA	MIFR	Mitotic abnormalities, fragment
ARHM	Arrestin homolog mRNA	MIIN	Mitotic abnormalities, interphase cells
ARIR	Aryl hydrocarbon receptor interacting protein mRNA	MILG	Mitotic abnormalities, laggard
ARMR	Androgen receptor mRNA	MIMN	Mitotic abnormalities, micronuclei
ARNM	Aryl hydrocarbon receptor nuclear translocator mRNA	MIMT	Mitotic abnormalities, metaphase
ARXM	Apoptosis regulator Bcl-X mRNA	MINB	Mitotic abnormalities, nuclear budding
ASAM	ATP synthase subunit a mRNA	MINF	Mitotic abnormalities, nuclear fusion
ASBM	ATP synthase subunit beta, mitochondrial mRNA	MIPO	Mitotic abnormalities, disturbed polarity
ASCM	Aspartoacylase mRNA	MIPR	Mitotic abnormalities, prophase
ASMR	Agrin, SEA mRNA	MISK	Mitotic abnormalities, stickiness
ASXR	Ascorbate peroxidase mRNA	MITA	Mitotic abnormalities
AT2M	Aryl Hydrocarbon receptor nuclear translocator-like protein 2 mRNA	MITI	Mitotic index (# mitoses/total cells)
ATBM	Tubulin alpha chain mRNA	MITR	Mitotic rate
ATNR	Adenosine triphosphatase Na/K pump mRNA	ML4R	Histone-lysine N-methyltransferase MLL4-like mRNA
ATPM	Ammonium transport protein mRNA	MLKR	Mitogen activated protein kinase phosphatase mRNA
ATPR	Amino acid-polyamine transporter mRNA	MLPM	Masquerade-like protein mRNA
ATRN	Alpha-induced tumor necrosis factor mRNA	MLT7	miRNA let-7h
AVMR	alpha vitelline envelope protein mRNA	MM1M	Membrane metallo-endopeptidase-like 1-like mRNA
AVTM	Arginine vasotocin mRNA	MM9M	Matrix metalloproteinase-9 mRNA
AX1M	Annexin A1a mRNA	MMRM	Macrophage mannose receptor mRNA
AY1M	Acyl-coenzyme A thioesterase 1 mRNA	MMRN	Metallothionein mRNA
B1AM	Beta-1 adrenergic receptor mRNA	MNSM	Manganese superoxide dismutase mRNA

Code	Definition	Code	Definition
B22M	Balbiani repeat gene 2.2 mRNA	MNUC	Micronuclei
B23M	Bcl-2-binding component 3 mRNA	MO1M	Methylsterol monooxygenase 1 mRNA
B2AM	Adrenoceptor beta 2, surface a mRNA	MORM	Main olfactory receptor-like protein mRNA
B2BM	Adrenoceptor beta 2, surface b mRNA	MP0M	Myelin protein zero mRNA
B2MM	beta-2 Microglobulin mRNA	MP1M	Mitogen-activated protein kinase 1 mRNA
BA1M	B(0,+)-type amino acid transporter 1-like mRNA	MP6M	Mitogen-activated protein kinase 6 mRNA
BA2M	Hemoglobin subunit beta-2 mRNA	MP9M	Mitogen-activated protein kinase 9 mRNA
BADF	beta-Actin cDNA fragments	MPBM	Membrane progestin receptor beta mRNA
BAI2	Brain-specific angiogenesis inhibitor 2 (BAI2) mRNA	MR1M	Multidrug-Resistance like Protein 1 mRNA
BAI3	Brain-specific angiogenesis inhibitor 3 (BAI3) mRNA	MR1R	Methionine sulfoxide reductase B2.1 mRNA
BAMR	beta-Actin mRNA	MR2R	Methionine sulfoxide reductase B2.2 mRNA
BAXR	bax mRNA	MRMT	Metallothionen mRNA metallothionein ratio
BC2M	Bcl-2 mRNA	MRNA	Messenger RNA
BDFM	beta-Defensin mRNA	MS1M	Microsomal glutathione S-transferase 1 mRNA
BFAM	Brain-type fatty acid binding protein mRNA	MS1R	Methionine-S-sulfoxide reductase A1 mRNA
BFBM	Brain-type fatty acid-binding protein b mRNA	MS2R	Peptide methionine-S-sulfoxide reductase A2 mRNA
BGDM	beta-Glucuronidase mRNA	MS3M	Microsomal glutathione S-transferase 3 mRNA
BGLM	Beta-galactosidase mRNA	MS3R	Peptide methionine sulfoxide reductase A3 mRNA
BGPM	Biogenesis protein mRNA	MS4R	Peptidyl-prolyl cis-trans isomerase A4 mRNA
BHMR	17 beta-hydroxysteroid dehydrogenase mRNA	MS5R	Peptide methionine sulfoxide reductase A5 mRNA
BHSM	11beta-Hydroxysteroid dehydrogenase mRNA	MSRM	Methionine sulfoxide reductase mRNA

Code	Definition	Code	Definition
BHTR	betaine homocysteine S-methyltransferase mRNA	MT1M	Metal-responsive transcription factor 1.1 mRNA
BM2M	Bone morphogenetic protein 2 mRNA	MT1R	Putative Cu-metallothionein (MTT1) mRNA
BM4M	Bone morphogenetic protein 4 mRNA	MT2M	Putative Cu-metallothionein (MTT2) mRNA
BM7M	Bone morphogenetic protein 7a mRNA	MTAM	Metallothionein-A mRNA
BMLR	Brain and muscle ARTN-like protein mRNA	MTBM	Metallothionein-B mRNA
BNFM	Brain-derived neurotrophic factor mRNA	MTOS	Mitosis
BRAK	Chromosomal breaks	MUTA	Mutation
BVMR	beta vitelline envelope protein mRNA	MVPM	Major vault protein mRNA
BX1M	Bcl-XL-like protein 1 mRNA	MXPM	Mx protein mRNA
C11A	CYP11A mRNA	MYCR	MYC binding protein 2 mRNA
C11M	Cytochrome P450, family 11, subfamily C, polypeptide 1 mRNA	MYDM	MyoD mRNA
C17M	CYP17 mRNA	MYMM	Myohemerytherin mRNA
C17R	Cuticular protein 17 mRNA	MYPM	Myeloperoxidase mRNA
C19B	CYP19b mRNA	MYZM	Myozenin mRNA
C19M	CYP19 mRNA	N0BM	Nuclear receptor subfamily 0 group B member 1 mRNA
C1A1	CYP19A1 mRNA	N52R	Nuclear receptor subfamily 5 group A member 2 mRNA
C1DR	C1D nuclear receptor corepressor mRNA	N55R	Nuclear receptor subfamily 5 group A member 5 mRNA
C1EM	Claudin 10e mRNA	N67M	alpha-7 Nicotinic acetylcholine receptor subunit mRNA to alpha-6 Nicotinic acetylcholine receptor subunit mRNA ratio
C1TM	CTRT1 transcript mRNA	NA3M	Na+/K+ ATPase alpha 3 mRNA
C212	CYP2B1/2 mRNA	NAAM	Na+/K+ ATPase alpha 1a mRNA
C21M	Collagen alpha-1(II) chain mRNA	NABM	Na+/K+ ATPase alpha 1b mRNA

Code	Definition	Code	Definition
C22M	Cytochrome P450, family 2, subfamily AA, polypeptide 2 mRNA	NABN	Nuclear abnormality
C28M	Calbindin-D28K mRNA	NACM	Na+/K+ ATPase alpha 1c mRNA
C28R	Cuticular protein 28 mRNA	NAP4	Phospholipase C gamma-binding protein (NAP4) mRNA
C2BM	Cryptochrome 2b mRNA	NC2R	Nuclear receptor coactivator 2 mRNA
C2BR	Cytochrome P-450 2B mRNA	NCMM	Neutral ceramidase mRNA
C2KM	Cytochrome P450 2K5 mRNA	NCPF	Nuclear phase frequency
C2MR	Cytochrome P4502N2 mRNA	NCPM	Neurocan core protein mRNA
C30M	Claudin 30 mRNA	ND1M	Nuclear receptor subfamily 1 group D member 1 mRNA
C34R	Chemokine (C-C motif) ligand 34a, duplicate 4 mRNA	ND1R	Neuronal differentiation 1 mRNA
C3AM	Cytochrome P450, CYP3A mRNA	ND2M	Nuclear receptor subfamily 1 group D member 2 mRNA
C3BM	Caspase 3B mRNA	NDBM	NADH dehydrogenase (ubiquinone) 1 Beta mRNA
C3OM	Coproporphyrinogen III oxidase mRNA	NDKM	Nucleoside diphosphate kinase 1 mRNA
C42M	Cell division control protein 42 homolog mRNA	NDUM	NADH dehydrogenase (ubiquinone) Fe-S protein 3, (NADH-coenzyme Q reductase) mRNA
C4EM	Cytochrome P450 4e2 mRNA	NF2M	Nuclear Factor erythroid 2-related factor mRNA
C4FM	Cytochrome P450 4F-similar mRNA	NF2R	Neuropeptide FF receptor 2 mRNA
C4GM	Cytochrome p450 family 4 subfamily G mRNA	NFCR	Nuclear factor I/C mRNA
C4PM	Cytochrome P450 4p1 mRNA	NFFR	Neuropeptide FF-amide peptide precursor like mRNA
C4TM	CYP4T11 mRNA	NG1M	Neurongenin 1 mRNA
C5MR	clone CDA56-A07, 5'end mRNA	NGRN	Notch gene homolog 1 mRNA
C61R	Cysteine-rich, angiogenic inducer, 61 mRNA	NH2M	Sodium/hydrogen exchanger 2 mRNA
C62M	Cytochrome P450 6a2 mRNA	NHRM	NADPH--hemoprotein reductase mRNA
C65M	Cytochrome P450, family 3, subfamily A, polypeptide 65 mRNA	NISM	Sodium Iodide symporter mRNA

Code	Definition	Code	Definition
C68M	Cytochrome P450 6a8 mRNA	NK1M	Na+/H+ ATPase alpha1a-subunit mRNA
C6AM	Cytochrome P450 6AE12 mRNA	NKAM	Na+ K+ ATPase mRNA
C92M	CYP9AT2 mRNA	NKCM	Na+ K+ 2Cl- Cotransporter mRNA
C9A2	CYP19A2 mRNA	NL2M	Nuclear factor, erythroid 2-like 2b mRNA
C9AM	CYP19A mRNA	NLMR	Nucleolin mRNA
C9BM	CYP19b-luciferase mRNA	NMRM	N-methyl-D-aspartate receptor mRNA
C9LM	CYP19a-luciferase mRNA	NNLM	Neuronal acetylcholine receptor, Neurotransmitter-gated ion-channel ligand binding domain mRNA
CA1M	Cyp1A1 mRNA	NNTM	Neuronal acetylcholine receptor, Neurotransmitter-gated ion-channel transmembrane region mRNA
CA2M	Cytochrome P-450 1A2 mRNA	NOSR	nitric oxide synthase mRNA
CA3M	Cyp1A3 mRNA	NPSM	Nonribosomal peptide sythetase McyA protein mRNA
CA9M	Protein CBR-CYP-34A9 mRNA	NPYM	Neuropeptide Y mRNA
CAAM	Cytochrome P450 aromatase A mRNA	NQO1	Nqo1 mRNA
CABM	Chlorophyll A-B binding protein mRNA	NR1R	Nuclear receptor coactivator 1 mRNA
CABR	Chromosomal aberrations	NR2M	Nuclear receptor-binding factor 2 mRNA
CALM	Cytochrome P450 c17 alpha hydroxylase/17,20 lyase mRNA	NR2R	Nuclear receptor corepressor 2 mRNA
CAMM	Calmodulin mRNA	NR3M	Nuclear receptor 3 mRNA
CAPM	Cortactin binding protein-like protein mRNA	NR3R	Nuclear receptor coactivator 3 mRNA
CARN	CD36 antigen mRNA	NRCR	Nuclear receptor co-repressor mRNA
CATM	Cocaine and amphetamine regulated transcript protein type I mRNA	NRRM	Nuclear receptor subfamily 4 group A member 2 mRNA
CB10	Cyp2b10 mRNA	NRSR	N-ras mRNA
CB1M	Cyclin-dependent kinase B1-1 mRNA	NRTM	Neuritin mRNA
CB1R	Protein CYP-35B1 mRNA	NRXR	Neurexin 2 mRNA
CB2M	Cyclin B2 mRNA	NS1M	Nsep1 protein mRNA

Code	Definition	Code	Definition
CB5M	Cytochrome b5 mRNA	NT1R	Notch 1a mRNA
CBLM	Cathepsin b-like precursor mRNA	NTAM	N-Terminal acetyltransferase mRNA
CBMR	Cyclin B mRNA	NTCM	Notch mRNA
CBP9	CaBP-9K mRNA	NURM	NADH:ubiquinone reductase (H(+)-translocating) mRNA
CC1M	Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA	NY8B	Neuropeptide Y receptor Y8b mRNA
CC1R	Cytochrome b-c1 complex subunit 1, mitochondrial mRNA	OAP8	OsAPx8 mRNA
CC2M	Calcium/calmodulin-dependent protein kinase 2 mRNA	OATM	Organic anion transporting polypeptide 58Dc mRNA
CC3M	Complement C3 mRNA	OB2M	Oxysterol-binding protein 2 mRNA
CC3R	Complement component c3a, duplicate 2 mRNA	OCHM	omChgH mRNA
CC4M	Cytochrome c oxidase subunit IV isoform 1 mRNA	OCLM	omChgL mRNA
CC5M	Cryptochrome 5 mRNA	OCRM	Octopamine receptor mRNA
CC6M	Cytochrome c6, chloroplastic mRNA	ODCM	Ornithine decarboxylase mRNA
CC7M	Complement component C7 mRNA	OMGR	O6-MGMT mRNA
CC9M	Complement component C9 mRNA	OS1M	Opsin-1, short-wave-sensitive 1 mRNA
CCAM	Cytoplasmic carbonic anydrase mRNA	OS2M	Opsin-1, short-wave-sensitive 2 mRNA
CCCM	Chain A, 2.0 A Crystal Structure Of The Cav1.2 Iq Domain-CaCAM COMPLEX mRNA	OXNR	Orexin mRNA
CCKM	Cholecystokinin mRNA	P10R	Phosphodiesterase 10A mRNA
CCOI	Cytochrome C oxidase chain I mRNA	P12M	Probable cytochrome P450 12d1 proximal, mitochondrial mRNA
CD1M	Cell differentiation protein RCD1 homolog	P21M	p21 (CDKN1A)-activated kinase 2a mRNA
CD1R	Cyclin D1 mRNA	P2AM	Phospholipase A2-activating protein mRNA
CDKM	Cyclin-dependent kinase 1 mRNA	P2FM	POU domain, class 2, transcription factor 3-like mRNA
CDNA	Complementary DNA (cDNA)	P2LM	p21-ras protein mRNA, long form

Code	Definition	Code	Definition
CE1M	Centrin-1 mRNA	P2SM	Prostaglandin I2 synthase mRNA
CE2M	Centrin-2 mRNA	P3AM	Cytochrome P450 3A mRNA
CEBM	CCAATT/Enhancer binding proteins mRNA	P4MR	P450scc mRNA
CEFM	Ca2+ binding protein (EF-hand domain) mRNA	P53M	p53 mRNA
CF4M	Cytochrome P450 family 4 mRNA	P6MR	pax6 mRNA
CFAM	Cofilin-1A mRNA	P9AR	Proteasome subunit beta 9a mRNA
CFBM	Corticotropin-releasing factor-binding protein mRNA	PA1M	Phorbol-12-myristate-13-acetate-induced protein 1 mRNA
CFSM	c-fos mRNA	PA2M	Phospholipase A2 mRNA
CFTM	Cystic Fibrosis Transmembrane Conductance Regulator mRNA	PA4M	Proton-coupled amino acid transporter 4-like mRNA
CG2M	cGMP-dependent protein kinase, isozyme 2 forms cD4/T1/T3A/T3B mRNA	PAAM	Peroxisome proliferator-activated receptor alpha mRNA
CG2R	Cyclin G2 mRNA	PABM	Peroxisome proliferator-activated receptor beta mRNA
CG3M	Collagenase 3 mRNA	PACH	Pachytene
CGAP	Chromosomal gap	PAGM	Peroxisome proliferator-activated receptor gamma mRNA
CGCM	CG1399, isoform C mRNA	PAMR	P450-17alpha mRNA
CGMR	CG30344 mRNA	PARK	Parkin
CH2M	Carbonic anhydrase 2 mRNA	PBCM	Photosystem II psbC mRNA
CH9R	Chromodomain helicase DNA binding protein 9 mRNA	PBEM	Peroxisomal bifunctional enzyme mRNA
CHBM	CR/20beta-HSD B mRNA	PBPM	Phosphate-binding protein mRNA
CHDF	Choriogenin H cDNA fragments	PC1M	Proprotein Convertase 1 mRNA
CHKM	C-C Chemokine mRNA	PC2M	Phosphoenolpyruvate carboxykinase 2 mRNA
CHLM	Chlorophyll mutation / albina mutants	PC5M	Probable copper-transporting ATPase HMA5 mRNA
CHMM	Choriogenin H minor mRNA	PCAM	Programmed cell death activator egl-1 mRNA
CHMR	Choriogenin H mRNA	PCGM	Phosphoenolpyruvate carboxykinase (GTP) mRNA

Code	Definition	Code	Definition
CHSM	Chitinase mRNA	PCKM	Protein C kinase mRNA
CI1M	Carboxylesterase clade I, member 1 mRNA	PCNA	PCNA Index
CIPR	CLOCK-interacting pacemaker mRNA	PCRN	Phosphoenolpyruvate carboxykinase 1 mRNA
CK1M	Ca2+/Calmodulin-dependent protein kinase 1-gamma splice 1 mRNA	PCTM	Probable cation-transporting ATPase 13A3-like mRNA
CK2M	Ca2+/Calmodulin-dependent protein kinase 1-gamma splice 2 mRNA	PCTR	Potassium channel tetramerisation domain containing 15 mRNA
CKAR	Choline kinase alpha mRNA	PD1M	Photosystem II D2 protein 1 mRNA
CKMR	Cytokine mRNA	PD1R	Phosphotyrosine interaction domain containing 1 mRNA
CL1M	Calponin-1 mRNA	PD2M	Photosystem II D2 protein mRNA
CLBM	chlB mRNA	PDBM	Peroxisome proliferator-activated receptor delta b mRNA
CLDF	Choriogenin L cDNA fragments	PE2M	Prostaglandin E synthase 2 mRNA
CLLM	C-type Lectin like mRNA	PEGM	Pro-epidermal growth factor mRNA
CLMR	Choriogenin L mRNA	PG1M	Protein CBR-PGRN-1 mRNA
CLOM	CLOCK mRNA	PG2M	Progonadoliberin-2 mRNA
CLRM	Calreticulin mRNA	PGCR	Peroxisome proliferator activated receptor gamma coactivator 1 alpha mRNA
CLSM	Chalcone synthase mRNA	PH2M	Pituitary homeobox 2 mRNA
CLTM	Cla transcript mRNA	PHCM	Phospholipase C mRNA
CMTN	Chromatin	PHFQ	Phenotype frequencies
CMTR	Calmodulin binding transcription activator 2 mRNA	PHMR	Phenylalanine Hydroxylase mRNA
CN2M	Casein kinase 2 mRNA	PIBM	Photosystem I reaction center protein subunit B mRNA
CNCM	Cyclic nucleotide-gated cation channel mRNA	PIKM	Protease inhibitor 11, Kazal mRNA
CNTM	Centractin mRNA	PK1M	Polyketide synthase type 1 McyD mRNA
CO1M	Cytochrome c oxidase copper chaperone 1 mRNA	PKBR	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 mRNA

Code	Definition	Code	Definition
CO1R	Cytochrome c oxidase subunit 1 mRNA	PKCM	Protein kinase C delta type mRNA
CO2M	Cytochrome oxidase subunit II mRNA	PKDM	Putative protein kinase C delta type homolog mRNA
COSM	Cytochrome oxidase subunit mRNA	PL1R	Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1a mRNA
COXM	Cyclooxygenase mRNA	PLCR	Piccolo presynaptic cytomatrix protein mRNA
CP1M	Cytochrome P450, family 2, subfamily AA, polypeptide 1 mRNA	PLMR	Prolactin mRNA
CP2M	Cytochrome P450, family 1, subfamily C, polypeptide 2 mRNA	PLRM	Paramyosin-like mRNA
CP3R	Caspase-3 mRNA	PM1M	Progestin membrane receptor component 1 mRNA
CP6M	Caspase 6 mRNA	PMIM	Probable maleylacetoacetate isomerase mRNA
CP8M	Caspase 8 mRNA	PNPM	Purine nucleoside phosphorylase-like protein mRNA
CP9M	Caspase-9 mRNA	PO2M	Probable oxygen-evolving enhancer protein 2 mRNA
CPAM	CCAAT/enhancer binding protein alpha mRNA	PO2R	Pleckstrin homology domain containing, family O member 2 mRNA
CPBM	CCAAT/enhancer binding protein beta mRNA	POLY	Chromosomal polyploidy
CPCM	Choline-phosphate cytidylyltransferase mRNA	PONR	Peroxinectin mRNA
CPDM	CCAAT/enhancer binding protein delta mRNA	POOM	Pro-opiomelanocortin mRNA
CPGM	CCAAT/enhancer binding protein gamma mRNA	PP1M	Period circadian protein homolog 1 mRNA
CPLM	Cathepsin L mRNA	PP2M	Period circadian protein homolog 2 mRNA
CPMR	Chorion protein mRNA	PP3M	Period circadian clock 3 mRNA
CPRN	Cytochrome P1A messenger RNA	PPBM	Peroxisome proliferator activated receptor alpha b mRNA
CPTM	Carnitine O-palmitoyltransferase mRNA	PPDM	Peroxisome proliferator-activated receptor delta mRNA
CPTR	Carnitine palmitoyltransferase 1a, liver mRNA	PPIN	Preproinsulin mRNA

Code	Definition	Code	Definition
CR1M	Cellular retinoic acid binding protein 1a mRNA	PPMR	Protein phosphatase mRNA
CR2M	Corticotropin-releasing factor receptor 2 mRNA	PPOM	Prophenoloxidase mRNA
CR2R	Cellular retinoic acid binding protein 2, a mRNA	PPPM	Phosphate transport system permease protein mRNA
CRBM	cAMP response element binding protein mRNA	PPRM	Peroxisome proliferator-activated receptor gamma mRNA
CRFA	Corticotropin releasing factor mRNA to Acidic ribosomal phosphoprotein P0 mRNA ratio	PPVM	Preprovasotocin mRNA
CRKM	Creatine kinase mRNA	PQAM	Peroxiredoxin Q A-1 mRNA
CRMR	Corticotropin-releasing factor mRNA	PQBM	Photosystem Q(B) protein mRNA
CRNR	Atrial natriuretic peptide-converting enzyme mRNA	PR1M	Prostaglandin reductase 1 mRNA
CSFM	Colony stimulating factor 1, macrophage, mRNA	PR1R	Prolactin receptor 1 mRNA
CSMR	Citrate synthase mRNA	PR2M	Progestin membrane receptor component 2 mRNA
CSPM	cAMP-specific phosphodiesterase mRNA	PR2R	Prolactin receptor 2 mRNA
CT1M	Catalase-1 mRNA	PRAM	Progesterone membrane receptor alpha mRNA
CT2M	Catalase-2 mRNA	PRDN	Protein to DNA ratio
CT4M	Caudal type homeobox 4 mRNA	PRLM	Proline--tRNA ligase mRNA
CT5M	Chitinase 5 mRNA	PRMR	Progesterone receptor mRNA
CTAM	Copper-transporting ATPase 1 mRNA	PRRN	Protein to RNA ratio
CTBM	Cathepsin B mRNA	PS1M	Prostaglandin G/H synthase 1 mRNA
CTDM	Cathepsin D mRNA	PS2M	Prostaglandin G/H synthase 2 mRNA
CTLM	Catalase mRNA	PSBM	psaB mRNA
CTLR	C-Type Lysozyme mRNA	PSCM	psbC mRNA
CUTR	Copper transporter I mRNA	PSMR	Pituitary specific transcription factor mRNA

Code	Definition	Code	Definition
CVBM	Cytochrome c oxidase subunit Vb 2 mRNA	PTAM	Phosphate-specific transport system accessory protein PhoU mRNA
CVRM	Cavortin mRNA	PTBM	Proteasome subunit beta mRNA
CX1M	Chemokine CXCL-C1c mRNA	PTCM	Phosphoinositide phospholipase C mRNA
CX1R	Cox1 mRNA	PTKM	Protachykinin mRNA
CX2R	COX2 mRNA	PTMM	Protamine mRNA
CXEM	Carboxylesterase mRNA	PTRM	Pro-thyrotropin-releasing hormone mRNA
CY1R	Cryptochrome 1-like 1 mRNA	PUPR	Putative uncharacterized protein OJ1123_C08.7 mRNA
CY2M	Carnitine O-palmitoyltransferase 2, mitochondrial mRNA	PVAM	Parvalbumin mRNA
CY2R	Cryptochrome 2 mRNA	PWIM	Piwi-like protein 1 mRNA
CYBM	Cytochrome b, mitochondrial mRNA	PX1M	Peroxiredoxin-1 mRNA
CYPM	Cyclophilin mRNA	PX2M	Paired box protein Pax-2a mRNA
CYPR	Cytochrome P450 21A mRNA	PX8M	Paired box protein Pax-8 mRNA
CYRN	Cyp1b1 mRNA	PXMR	Pregnane X receptor mRNA
D1AM	DMRT1a mRNA	PYDM	Phytoene desaturase mRNA
D1BM	DMRT1b mRNA	PYYM	Prepropeptide YY mRNA
D22M	Dopamine D2 receptor 2 mRNA	R11M	Ribosomal protein L11 mRNA
D3BM	Dihydropyrimidanase-related protein 3-B mRNA	R12M	Ribosomal protein L12 mRNA
D51M	DNA repair protein RAD51 mRNA	R13M	60S ribosomal protein L13 mRNA
D6AM	Dynein heavy chain 6, axonemal-like mRNA	R15M	Ribosomal protein L15 mRNA
DAMG	Damage	R17M	Ribosomal protein L17 mRNA
DARM	Dehydroascorbate reductase mRNA	R18M	40S ribosomal protein S18 mRNA
DBHM	Dopamine beta-hydroxylase mRNA	R19M	Ribosomal protein S19 mRNA
DCIM	Dynein, cytoplasmic 1, intermediate chain 1 mRNA	R1AM	Retinol binding protein 1a, cellular mRNA
DCXM	Neuronal migration protein doublecortin mRNA	R23M	Ribosomal protein L23a mRNA

Code	Definition	Code	Definition
DD1M	N(G),N(G)-dimethylarginine dimethylaminohydrolase 1 mRNA	R32M	60S ribosomal protein L32 mRNA
DF1M	Defensin 1 mRNA	R51M	DNA repair protein RAD51 homolog 1 mRNA
DM1M	DNA (cytosine-5-)-methyltransferase 1 mRNA	RAAM	Retinoic acid receptor alpha-A mRNA
DM3M	DNA (cytosine-5-)-methyltransferase 3 mRNA	RASO	RAS Oncogene
DM4M	DNA (cytosine-5-)-methyltransferase 4 mRNA	RB4M	Retinol-binding protein 4 mRNA
DM5M	DNA (cytosine-5-)-methyltransferase 5 mRNA	RBCM	rbcL mRNA
DM6M	DNA (cytosine-5-)-methyltransferase 3 alpha b mRNA	RBPR	Retinol-binding protein mRNA
DM7M	DNA (cytosine-5-)-methyltransferase 3 beta mRNA	RBSR	Retinoblastoma mRNA
DM8M	DNA (cytosine-5-)-methyltransferase 3 alpha a mRNA	RC1M	Ammonium transporter Rh type C 1 mRNA
DMDM	Diphosphomevalonate decarboxylase mRNA	RC2M	Ammonium transporter Rh type C 2 mRNA
DMRT	dmrt1 mRNA	RCLM	Ribulose-bisphosphate carboxylase large subunit mRNA
DN3R	DNA (cytosine-5)-methyltransferase 3A mRNA	RD1M	Ras association (RalGDS/AF-6) domain family 1mRNA
DNAB	DNA binding	RD1R	Retinol dehydrogenase 1 mRNA
DNAC	DNA concentration	RD2M	Retinal dehydrogenase 2 mRNA
DNAD	DNA Adducts	RD8M	Retinol dehydrogenase 8 mRNA
DNAS	DNA synthesis rate	RDMM	tRNA dimethylallyltransferase, mitochondrial-like mRNA
DNMT	DNA methylation	RDMR	Retinol dehydrogenase mRNA
DNPR	DNA to protein ratio	RHAM	Ammonium transporter Rh type A mRNA
DNRM	DNA alkylation repair protein mRNA	RHBM	Ammonium transporter Rh type B mRNA
DNRN	DNA to RNA ratio	RHMR	RNA helicase mRNA
DP3R	Death associated protein 3 mRNA	RHOM	Rhodopsin mRNA
DPLT	Diplotene	RL5M	60S ribosomal protein l5 mRNA

Code	Definition	Code	Definition
DPTR	Dopamine Transporter Expression	RLNR	Reelin mRNA
DR3M	Dihydropyrimidinase-related protein 3 mRNA	RNAC	RNA concentration
DTMR	Dopamine transporter mRNA	RNAS	RNA synthesis rate
DTPR	Deoxyuridine triphosphatase mRNA	RNDN	RNA to DNA ratio
DX5M	Probable ATP-dependent RNA helicase DDX5 mRNA	RNGT	Glutathione S-transferase mRNA
E11M	Elongation factor 1-alpha 1 mRNA	RNPR	RNA to protein ratio
E3UM	E3 ubiquitin-protein ligase	RNRD	NAD(P)H dehydrogenanse, quinone 1 mRNA
E42M	Eukaryotic translation initiation factor 4E-binding protein 2 mRNA	RO1M	Red-sensitive opsin-1 mRNA
E74R	Ecdysone-induced protein 74EF mRNA	RO1R	Reactive oxygen species modulator 1 mRNA
E75M	E75 nuclear receptor mRNA	ROAM	Nuclear receptor ROR-alpha mRNA
EA2M	Estrogen receptor alpha 2 mRNA	ROBM	Nuclear receptor ROR-beta mRNA
EB1M	Estrogen receptor beta1 protein mRNA	RP3M	40S ribosomal protein S3a mRNA
EB2M	Estrogen receptor beta2 protein mRNA	RP6M	40S ribosomal protein S6 mRNA
EBCN	Effective body concentrations	RP7M	60S ribosomal protein L7 mRNA
ECCM	Epithelial calcium channel mRNA	RP8M	rpl8 mRNA
ECRM	Ecdysone receptor mRNA	RR2M	Runt-related transcription factor 2 mRNA
EF1M	Enhancer of filamentation 1 mRNA	RRAM	Retinoic acid receptor RXR-gamma-A mRNA
EFAM	Elongation factor-1 alpha mRNA	RRNA	Ribosomal RNA
EFMR	Eukaryotic initiation factor 4A1 mRNA	RS1R	R-ras1 mRNA
EFTM	Elongation factor Tu GTP binding domain containing 1 mRNA	RS2M	Ribosomal Protein S2 mRNA
EG3R	Egl-9 family hypoxia-inducible factor 3 mRNA	RS3R	R-ras3 mRNA
EGFR	egfr mRNA	RX3R	Relaxin/insulin-like family peptide receptor 3 mRNA

Code	Definition	Code	Definition
EHMM	Enoyl-CoA hydratase, mitochondrial mRNA	RXAM	Retinoid X Receptor alpha mRNA
EIMR	Eukaryotic initiation factor 2B mRNA	RXBM	Retinoid X Receptor beta mRNA
EL5R	ELOVL fatty acid elongase 5 mRNA	RXGM	Retinoid X Receptor gamma mRNA
ELH3	rtERalphaL mRNA to histone H3 mRNA ratio	S12M	Ribosomal protein s12 mRNA
ELVM	ELAV like neuron-specific RNA binding protein 3 mRNA	S14M	Serine protease 14 mRNA
EMRN	Estrogen mRNA	S15M	Ribosomal protein s15 mRNA
EMRR	Estrogen receptor : estrogen mRNA ratio	S17M	sox17alpha mRNA
EP1M	Eukaryotic peptide chain release factor subunit 1 mRNA	S19M	Ribosomal protein s19 mRNA
EPLM	Endoplasmin-like mRNA	S1CM	Sulfotransferase family 1, cytosolic sulfotransferase 2 mRNA
ERAM	Estrogen receptor alpha mRNA	S1TM	Signal transducer and activator of transcription 1 mRNA
ERBM	Ecdysone receptor B isoform mRNA	S22M	Serine protease 22
ERBR	Estrogen receptor beta mRNA	S25M	Synaptosomal-associated protein, 25kDa mRNA
ERGM	Estrogen receptor gamma mRNA	S27M	Ribosomal protein s27 mRNA
ERRM	Estrogen receptor response element mRNA	S2AM	Sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 1 mRNA
ESH3	rtERalphaS mRNA to histone H3 mRNA ratio	S2AR	Synapsin IIa mRNA
ESRG	Estrogen receptor gene	S2MR	sox2 mRNA
ESRM	Estrogen receptor mRNA	S3MR	Stromelysin-3 mRNA
ESRR	Estrogen related receptor mRNA	S40M	Serine protease 40 mRNA
ET3M	Eukaryotic translation initiation factor 3 subunit mRNA	S52M	Steroid 5 alpha reductase type 2 mRNA
ETIR	Eukaryotic translation initiation factor 2 subunit 3 mRNA	S55M	SLC5A5 mRNA
ETMR	Eotaxin mRNA	S64M	Solute carrier family 6 (neurotransmitter transporter), member 4a mRNA

Code	Definition	Code	Definition
ETPM	Enteropeptidase mRNA	S6BM	Solute carrier family 6 (neurotransmitter transporter), member 4b mRNA
F11M	Fatty acid binding protein 11 mRNA	S9BM	Sox9b protein mRNA
F12M	Family with sequence similarity 120C mRNA	SA1M	Sulfate anion transporter 1 mRNA
F18M	Fibroblast growth factor 18-like mRNA	SA2M	Salmo salar vomeronasal receptor-like protein (SVRA2) mRNA
F1AM	Fatty acid binding protein 1-A, liver mRNA	SA4M	Serum amyloid A-4 protein mRNA
F1BM	Fatty acid binding protein 1-B.1 mRNA	SA5M	20S proteasome alpha5 subunit, partial mRNA
F1CM	Flotillin 1c mRNA	SAHM	Steroid 17-alpha-hydroxylase/17,20 lyase mRNA
FA3M	Fatty acid binding protein 3, muscle and heart mRNA	SANM	Spectrin alpha chain, non-erythrocytic 1 mRNA
FA6M	Fatty acid binding protein 6, ileal (Gastrotropin) mRNA	SARM	Sterile alpha and HEAT-Armadillo motifs mRNA
FAAM	Fumarylacetoacetase mRNA	SB1M	Salmo salar vomeronasal receptor-like protein (SVRB1) mRNA
FABM	Fatty acid binding protein mRNA	SBPM	Selenium-binding protein mRNA
FAEM	Fatty acid elongase mRNA	SC1M	similar to calmodulin 1 mRNA
FAMM	Fatty acid-binding protein, muscle mRNA	SC2M	simliar to Cornifelin isoform 2 mRNA
FAMR	Family with sequence similarity 213, member Aa mRNA	SC3M	Sodium- and chloride-dependent GABA transporter 3 mRNA
FARN	Fatty acid binding protein 5 mRNA	SC5R	Suppressor of cytokine signaling 5 mRNA
FASM	Fatty acid synthase mRNA	SCEX	sister chromatid exchange
FB1M	Fructose-1,6-bisphosphatase 1a mRNA	SCFM	Solute carrier family 38, member 4 mRNA
FBAM	Fructose-bisphosphate aldolase mRNA	SD1M	Superoxide dismutase 1 mRNA
FBCM	Fructose-bisphosphate aldolase C-B mRNA	SD2M	Superoxide dismutase 2 mRNA
FBMR	Fructose-bisphosphatase mRNA	SDF1	Steroidogenic factor-1 expression
FCBM	F-actin-capping protein subunit beta mRNA	SDHM	Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial mRNA

Code	Definition	Code	Definition
FD1M	Fatty acid desaturase 1 mRNA	SDMR	Succinate Dehydrogenase mRNA
FD2M	Fatty acid desaturase 2 mRNA	SE1M	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1 mRNA
FD3M	FoxD3 mRNA	SEIM	Serine-type endopeptidase inhibitor mRNA
FDOM	FAD-dependent oxidoreductase mRNA	SEXE	Sex expression change
FG8M	Fibroblast growth factor 8 mRNA	SF1M	Superoxide dismutase [Fe] 1 mRNA
FGAM	Factor in the germline alpha mRNA	SFBM	similar to F-box only protein 21 isoform 2 mRNA
FKPM	FK506-binding protein 15 mRNA	SFPM	Sfrs1 protein, partial mRNA
FLDM	Fibrinogen-like domain mRNA	SG2M	Solute carrier family 2, facilitated glucose transporter member 2 mRNA
FLSM	Follistatin mRNA	SG4M	Solute carrier family 2, facilitated glucose transporter member 4 mRNA
FNAM	Ferredoxin-nitrate reductase mRNA	SH1M	Stathmin 1 mRNA
FNIM	Ferredoxin-nitrite reductase mRNA	SH2M	Slit homolog 2 protein-like mRNA
FP1M	Furin-like protease 1 mRNA	SHHM	Sonic hedgehog mRNA
FPSM	Farnesyl pyrophosphate synthase mRNA	SHR2	SpSHR2 mRNA
FR1M	Fibroblast growth factor receptor 1 mRNA	SLBM	Selenoprotein T, 1b mRNA
FRBR	FUS RNA binding protein mRNA	SLKM	Selenoprotein K mRNA
FRS1	Fraser extracellular matrix complex subunit 1 mRNA	SLTM	Somatolactin mRNA
FRTM	Ferritin mRNA	SM1M	Superoxide dismutase [Mn] 1 mRNA
FSMR	Follicle stimulating hormone beta mRNA	SM2M	Superoxide dismutase [Mn] 2 mRNA
FSRM	Follicle-stimulating hormone receptor mRNA	SM3M	Superoxide dismutase [Mn] 3 mRNA
FTTM	Facilitated trehalose transporter Tret1-like mRNA	SNGM	similar to Neurogranin mRNA
FU1M	Far upstream element-binding protein 1	SNKR	SH3 and multiple ankyrin repeat domains protein 3 mRNA
FX2M	Foxl2 mRNA	SO9M	Transcription factor SOX-9 mRNA

Code	Definition	Code	Definition
FZ1M	Fizzy-related protein homolog mRNA	SODM	Superoxide dismutase mRNA
FZZM	Frizzled cysteine rich domain region mRNA	SP1M	Selenoprotein P, plasma, 1 mRNA
G10M	ABC transporter G family member 10 mRNA	SP1R	Sp1 transcription factor mRNA
G10R	Glutathione S-transferase P 10 mRNA	SP3R	Serine (or cysteine) peptidase inhibitor, clade A, member 3M mRNA
G11M	ABC transporter G family member 11 mRNA	SPGM	Spiggin mRNA
G12M	ABC transporter G family member 12 mRNA	SR7M	similar to Ribosomal protein L7 mRNA
G13M	ABC transporter G family member 13 mRNA	SR8M	similar to Ribosomal protein S8 mRNA
G1AM	Gonadotropin-releasing hormone receptor 1 type A mRNA	SRBR	sterol regulatory element binding protein 1 mRNA
G1AR	Glutathione peroxidase 1a mRNA	SRPM	Serpentine mRNA
G1BM	Gonadotropin-releasing hormone receptor 1 type B mRNA	SRRN	Steroidogenic Acute Regulatory protein mRNA
G1BR	Glutathione peroxidase 1b mRNA	SS2M	Somatostatin-2 mRNA
G1H3	sGnRH1 mRNA to histone H3 mRNA ratio	SSTM	Steryl-sulfatase mRNA
G1LM	Glutathione peroxidase-like 1 mRNA	ST1M	Cytosolic sulfotransferase 1 mRNA
G1PN	G1 phase neuclei	ST1R	StAR-related lipid transfer domain mRNA
G27M	G protein-coupled receptor 27 mRNA	ST4M	SULT1 sulfotransferase isoform 4 mRNA
G2AM	Ganglioside GM2 activator mRNA	ST4R	Septin 4 mRNA
G2AR	Growth hormone receptor type 2a mRNA	ST5M	SULT1 isoform 5 mRNA
G2BR	Growth hormone receptor type 2b mRNA	ST6M	SULT1 isoform 6 mRNA
G2H3	sGnRH2 mRNA to histone H3 mRNA ratio	STKM	Serine/Threonine protein kinase mRNA
G2LM	Glutathione peroxidase-like 2 mRNA	STPM	Serotonin transporter protein mRNA

Code	Definition	Code	Definition
G2SM	Glutathione S-transferase S2 mRNA	STTM	Signal transducer and activator of transcription mRNA
G32M	Glyceraldehyde 3-phosphate dehydrogenase 2 mRNA	SW1M	Selenoprotein W, 1 mRNA
G38M	CYP4G38 mRNA	SW2M	Selenoprotein W, 2a mRNA
G38R	Protein GST-38 mRNA	SX9M	SRY-related HMG box protein 9a mRNA
G39M	CYP4G39 mRNA	SYNM	Structural toxin protein RtxA mRNA
G3AR	Glycerol-3-phosphate acyltransferase 1 mRNA	T16M	Tetraspanin-16 mRNA
G4AM	Glutathione peroxidase 4a mRNA	T17R	Thrombospondin, type I, domain containing 7B mRNA
G65M	Glutamate decarboxylase 65 kDa isoform mRNA	T1AM	Tumor necrosis factor receptor superfamily member 1A mRNA
G67M	Glutamate decarboxylase 67 kDa isoform mRNA	T1EM	T-complex protein 1 subunit epsilon mRNA
G6MR	G6A11 mRNA	T3MM	Tyrosine 3-monooxygenase mRNA
G6PM	Glucose-6-phosphate 1-dehydrogenase mRNA	T5HM	Tryptophan 5-hydroxylase mRNA
GA1M	Glutathione S-transferase alpha-1 mRNA	T72R	Transmembrane protein 72 mRNA
GA2R	Type-II gonadotrophin alpha subunit mRNA	TAAM	Thyroid hormone receptor alpha-A mRNA
GAPM	Growth associated protein 43 mRNA	TABM	TATA-box-binding protein mRNA
GASR	Gonadotropin alpha subunit mRNA	TAMR	Thyroid Stimulating Hormone alpha mRNA
GB2R	Type-II gonadotrophin beta subunit mRNA	TB1M	Transforming growth factor beta-1 mRNA
GBPR	Gonadotropin beta-like protein mRNA	TB1R	Tubulin-beta-1-chain mRNA
GBRM	GABAa Receptor mRNA	TB4M	Thymosin beta-4 mRNA
GC4R	Glutaredoxin-C4, chloroplastic mRNA	TB5M	Tubulin beta-5 chain mRNA
GCAM	Glycosyl-phosphatidylinositol-linked carbonic anhydrase mRNA	TB8R	Tubulin, alpha 8 mRNA
GCCM	Glutamate--cysteine ligase catalytic subunit-like mRNA	TBAM	Tubulin alpha-1A chain mRNA

Code	Definition	Code	Definition
GCKM	Glucokinase mRNA	TBBM	Tubulin alpha 1b mRNA
GCLM	Glutamate cysteine-ligase mRNA	TBMR	Thyroid Stimulating Hormone beta mRNA
GCRR	Glucocorticoid receptor mRNA	TBPM	Tributyltin binding protein 1 mRNA
GCS3	Colony stimulating factor 3. Granulocyte , mRNA	TBTM	Thyroid hormone regulated basic transcription element-binding protein mRNA
GD1M	Glutathione S-transferase delta mRNA	TC1M	ABC transporter C family member 1 mRNA
GD2M	Glutathione S-transferase D2 mRNA	TC2M	ABC transporter C family member 2 mRNA
GD3M	Glutathione S-transferase D3 mRNA	TC3M	ABC transporter C family member 3 mRNA
GD5M	Glutathione S-transferase D5 mRNA	TC4M	ABC transporter C family member 4 mRNA
GD67	GAD67 (glutamate decarbosylase) mRNA	TC5M	ABC transporter C family member 5 mRNA
GD8M	Growth/differentiation factor 8 mRNA	TCMR	Transcription corepressor mRNA
GDAM	Growth arrest and DNA damage-inducible protein alpha mRNA	TCTM	Translationally Controlled Tumor Protein mRNA
GDRN	Growth arrest and DNA-damage-inducible 45 beta mRNA	TD3M	Testosterone 17-beta-dehydrogenase 3 mRNA
GE1M	Glutathione S-transferase E1 mRNA	TERM	Transitional endoplasmic reticulum ATPase mRNA
GE2M	Glutathione S-transferase epsilon 2 mRNA	TFCM	Transcription factor cep-1 mRNA
GEXP	Gene expression	TFNR	Transferrin mRNA
GFAM	Glial fibrillary acidic protein mRNA	TG1M	Teratocarcinoma-derived growth factor 1 mRNA
GFPM	Green fluorescent protein mRNA	TG1R	Transcription factor mafG1 mRNA
GGEN	Genetics, general	TG2R	Transcription factor mafG2 mRNA
GGSM	Gamma glutamylcysteine synthetase mRNA	TG4M	Transcription factor GATA-4 mRNA
GH1R	Growth hormone 1 mRNA	TGBM	Transforming Growth Factor Beta-induced mRNA
GH3M	Probable indole-3-acetic acid-amido synthetase mRNA	TGMM	Transglutaminase mRNA

Code	Definition	Code	Definition
GHAM	Glycoprotein hormone alpha subunit mRNA	TGMR	Thyroglobulin mRNA
GHMM	Growth hormone receptor mRNA	THRA	Thyroid hormone receptor alpha mRNA
GHMR	Growth hormone mRNA	THRR	Thyroid hormone-inducible hepatic protein mRNA
GJ1M	Gap junction alpha-1 protein mRNA	TIMM	Tissue inhibitor of metalloproteinases mRNA
GK2M	Glutamate receptor, ionotropic, kainate 2 mRNA	TL1M	Talin 1 mRNA
GL1M	Glycogenin-1 mRNA	TL3M	Toll-like receptor 3 mRNA
GL2M	Gonadoliberin-2 mRNA	TM1R	T-cell lymphoma invasion and metastasis 1 mRNA
GL2R	GLI family zinc finger 2a mRNA	TMTM	Telomeric transcript mRNA
GL3M	Gonadoliberin-3 mRNA	TNDM	Tumor Necrosis Factor Decoy Receptor mRNA
GLDM	L-galactono-1,4,-lactone dehydrogenase mRNA	TNFM	Tumor necrosis factor mRNA
GLRR	Glutathione reductase mRNA	TORM	Target of rapamycin mRNA
GLT1	Glucose transporter 1 mRNA	TP1M	Transcription factor AP-1 mRNA
GLT3	Glucose transporter 3 mRNA	TP1R	Trypsin 1 mRNA
GM5M	Glutathione S-transferase Mu 5 mRNA	TP5M	1-Cys thioredoxin peroxidase mRNA
GMC2	Colony stimulating factor 2, Granulocyte-macrophage, mRNA	TPIR	Triosephosphate isomerase mRNA
GMMR	Guanidinoacetate N-Methyltransferase mRNA	TPMR	Thyroid peroxidase mRNA
GN2R	Glutamate receptor, ionotropic, N-methyl D-aspartate 2C mRNA	TPPM	Tyrosine-protein phosphatase non-receptor type mRNA
GNAM	Guanine nucleotide-binding protein G(o) subunit alpha mRNA	TPXM	Thioredoxin peroxidase mRNA
GNMM	Glycine N-methyltransferase mRNA	TR1M	Thyrotropin-releasing hormone receptor 1 mRNA
GNRM	Global nitrogen regulator Ycf28 mRNA	TR1R	Thioredoxin reductase 1 mRNA
GNRR	gonadotrophin releasing hormone (GnRH) receptor mRNA	TR6M	TNF receptor-associated factor 6 mRNA

Code	Definition	Code	Definition
GO1M	Green-sensitive opsin-1 mRNA	TRAB	Thyroid hormone receptor alpha mRNA to Thyroid hormone receptor beta mRNA ratio
GO3M	GMC oxidoreductase 3 mRNA	TRBM	Thyroid Hormone Receptor beta mRNA
GOMM	Glutathione S-transferase omega class mRNA	TRHM	Trehalase mRNA
GOMR	goosecoid mRNA	TRIM	TIR-domain containing adaptor inducing IFN-beta mRNA
GORN	Glutamate oxaloacetate transaminase 1 mRNA	TRLM	Tryptophan--tRNA ligase mRNA
GP1M	GDP-L-galactose phosphorylase 1 mRNA	TRTM	Telomerase reverse transcriptase mRNA
GP1R	Guanylate binding protein 1 mRNA	TRYN	Trypsinogen mRNA
GP4M	Glutathione peroxidase 4b mRNA	TS1R	Wilms' tumor suppressor 1 mRNA
GPAR	G protein alpha subunit mRNA	TSHM	Thyroid Stimulating Hormone mRNA
GPHM	Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) mRNA	TSLE	Translocation efficiency
GPMR	Glutathione Peroxidase mRNA	TSPM	Translocator protein mRNA
GPPM	Glycogen phosphorylase mRNA	TSRM	Transthyretin (prealbumin, amyloidosis type I) mRNA
GR1M	Gonadotropin-releasing hormone receptor-1 mRNA	TT1M	Homeodomain protein TTX-1 mRNA
GR2M	Gonadotropin-releasing hormone II receptor mRNA	TTBM	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide a mRNA
GR3M	Gonadotrophin-releasing hormone receptor 3 mRNA	TTNM	Titan a mRNA
GR4M	Gonadotropin-releasing hormone receptor-4 mRNA	TTRM	Thyrotropin receptor mRNA
GRHR	gonadotrophin releasing hormone (GnRH) mRNA	TTRR	Transthyrethin mRNA
GS1M	Glutathione S-transferase S1 mRNA	TX2M	TAX2 mRNA
GS2M	Glutamine synthetase 2 mRNA	TX5R	Thioredoxin reductase 5 mRNA
GS3M	Glutathione S-transferase S3 mRNA	U15M	UDP-glucuronosyltransferase 1-5 mRNA

Code	Definition	Code	Definition
GS4M	Glutathione S-transferase S4 mRNA	U15R	UDP-glucuronosyltransferase 2B15 mRNA
GS4R	Glutathione S-transferase 4 mRNA	U1BM	Uridine 5'-diphospho-glucuronosyltransferase 1B mRNA
GS5R	Probable glutathione S-transferase 5 mRNA	U1MR	UGT1a1 mRNA
GSLM	Glutathione synthetase-like mRNA	U2AM	UDP-glucuronosyltransferase 2A1 mRNA
GSMR	Glutathione synthetase mRNA	U2BM	UDP-glucuronosyltransferase 2B17 mRNA
GSPM	Glucosinolate sulphatase mRNA	U52R	Ubiquitin A-52 residue ribosomal protein fusion product 1 mRNA
GSSM	Glutathione S-transferase sigma class mRNA	U6MR	UGT1a6 mRNA
GSTM	Glutathione S-transferase mu 9 mRNA	U7MR	UGT1a7 mRNA
GSZM	Glutathione S-transferase zeta mRNA	UABM	UGT1ab mRNA
GT1M	Glutathione S-transferase theta-1 mRNA	UB1M	Ubinuclein-1 mRNA
GTAM	Glutathione S-transferase alpha mRNA	UB2R	Ubiquitin-conjugating enzyme E2Ib mRNA
GTBM	Glutathione S-transferase theta 1b mRNA	UBCM	Putative ubiquitin-conjugating enzyme mRNA
GTKM	Glutathione S-transferase kappa mRNA	UBIM	Ubiquitin mRNA
GTLM	G-Type Lysozyme mRNA	UC3M	Novel protein similar to vertebrate urocortin 3 (Stresscopin) (UCN3) mRNA
GTMM	Glutathione S-transferase mu mRNA	UCER	Ubiquitin-conjugating enzyme E2-17 kDa mRNA
GTOM	Glutathione S-transferase omega-1 mRNA	UCHR	Ubiquitin carboxyl terminal hydrolase isozyme L5 mRNA
GTOR	Glutathione S-transferase omega mRNA	UDMR	UDP-glucuronosyltransferase Messenger RNA
GTPF	Genotype frequencies	UGRN	UDP-glucose dehydrogenase mRNA
GTPM	Glutathione S-transferase pi mRNA	UH1M	Ubiquitinyl hydrolase 1 mRNA
GTRM	Glutathione S-transferase rho mRNA	UIAP	Urotensin I mRNA to Acidic ribosomal phosphoprotein P0 mRNA ratio

Code	Definition	Code	Definition
GTTM	Glutathione S-transferase theta mRNA	UP2M	UCP2 mRNA
GVMR	gamma vitelline envelope protein mRNA	UP5M	Ubiquitin specific peptidase 5 mRNA
GX1M	Glutathione peroxidase 1 mRNA	UQBM	Ubiquitin B mRNA
GX2M	Glutathione peroxidase 2 mRNA	UQPM	Ubiquitin-like protein ISG15 mRNA
GX3M	Glutathione peroxidase 3 mRNA	URTM	Urea transporter mRNA
GX4M	Glutathione peroxidase 4 mRNA	USPM	Ultraspiracle mRNA
GX5M	Glutathione peroxidase 5 mRNA	V12M	Vimentin-1/2 mRNA
GX7M	Glutathione peroxidase 7 mRNA	VA1M	Vitellogenin Ao1 mRNA
GY2M	Glucose dehydrogenase 2 mRNA	VABM	V-type proton ATPase subunit B mRNA
GZ1M	Glutathione S-transferase Z1 mRNA	VADM	Voltage-dependent calcium channel subunit alpha-2/delta-3-like mRNA
GZBR	Granzyme B mRNA	VAMR	Vitellogenin mRNA beta-actin mRNA ratio
GZTM	Glutathione S-transferase zeta 2 mRNA	VAOR	V-rel avian reticuloendotheliosis viral oncogene homolog A mRNA
H10M	Heat shock protein 10 mRNA	VDNA	Vitellogenin cDNA
H11M	Homeobox A11b mRNA	VG2M	Vesicular glutamate transporter 2-like mRNA
H14M	Homeobox protein ceh-14 mRNA	VGAM	Vitellogenin A mRNA
H16M	Heat shock protein Hsp-16.1/Hsp-16.11 mRNA	VGAR	V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog Ga mRNA
H1AM	Hypoxia-inducible factor 1-alpha mRNA	VGBM	Vitellogenin B mRNA
H22M	Heat Shock Protein 22 mRNA	VGBR	V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog Gb mRNA
H23R	HR23B mRNA	VGCM	Vitellogenin C mRNA
H25M	Homeobox protein Nkx-2.5 mRNA	VGH3	Vitellogenin mRNA to histone H3 mRNA ratio
H26M	Heat shock protein 22.6 mRNA	VGRM	Vitellogenin receptor mRNA
H27M	Heat Shock Protein 27 mRNA	VIGM	Vigilin mRNA
H30M	Heat shock protein 30 mRNA	VM1M	Vitelline outer layer membrane protein 1 mRNA

Code	Definition	Code	Definition
H32M	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 mRNA	VMA2	Vesicular monoamine transporter isoform 2 (VMAT2)
H40M	Heat shock protein 40 mRNA	VMRN	Vitellogenin mRNA
H4AR	Hepatocyte nuclear factor 4 alpha mRN	VMYM	v-myc Avian myelocytomatosis viral oncogene homolog a mRNA
H4BM	Homeobox protein Nkx2.4b mRNA	VP1M	Vanin-like protein 1-like mRNA
H60M	Heat shock protein 60 mRNA	VSAM	Vasa mRNA
H70R	HSP70 mRNA	VT1M	Vitellogenin 1 mRNA
H71M	Heat shock 70kDa protein 1-like mRNA	VT2M	Vitellogenin 2 mRNA
H75M	Heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) precursor mRNA	VT3M	Vitellogenin 3 mRNA
H90R	Heat shock protein 90 mRNA	VT4M	Vitellogenin 4 mRNA
H94M	Heat shock protein 94 mRNA	VT5M	Vitellogenin 5 mRNA
H9AM	Heat shock protein 90 alpha mRNA	VTG7	Vitellogenin 7 mRNA
H9BM	Heat shock protein 90 beta mRNA	VTPM	Vitellogenin precursor mRNA
HA1M	Heterogeneous nuclear ribonucleoproteins A1 homolog mRNA	VZ1M	Vascular endothelial zinc finger 1 mRNA
HA3R	Hemoglobin alpha embryonic-3 mRNA	VZFM	Vascular endothelial zinc finger 1 mRNA
HACM	Heat shock protein 20/alpha-crystallin mRNA	W8AM	Protein Wnt-8a mRNA
HASM	Hydroxymethylglutaryl-CoA synthase mRNA	WATM	Worker-enriched antennal transcript mRNA
HB1M	Homeodomain protein HB1 mRNA	WP1M	Waprin-Phi1-like mRNA
HB2M	Homeodomain protein HB2 mRNA	WTDN	Weight to DNA ratio
HBCM	Homeobox protein MSH-C mRNA	X10M	Glutathione peroxidase 10 mRNA
HC1R	Hemocyanin alpha (or 1) chain mRNA	X81M	XK81A mRNA
HC2R	Hemocyanin beta (2-like) chain mRNA	XLRL	X-linked recessive lethal
HC6M	Hemocyanin subunit 6 mRNA	XPAR	XPA mRNA

Code	Definition	Code	Definition
HC7M	Heat shock cognate protein 70 mRNA	XPCR	XPC mRNA
HCDM	Hydroxyacyl-Coenzyme A dehydrogenase mRNA	XPDR	XPD mRNA
HCHM	Hydrocephalus-inducing protein homolog mRNA	XPFR	XPF mRNA
HCLM	Hydrocephalus-inducing protein-like mRNA	XR5M	X-ray repair cross-complementing protein 5 mRNA
HD1M	Hydroxysteroid 11-beta-dehydrogenase 1-like protein mRNA	XR6M	X-ray repair cross-complementing protein 6 mRNA
HD2M	11-beta-Hydroxysteroid dehydrogenase type 2 mRNA	XSLG	Xslug mRNA
HD3R	Histone deacetylase 3 mRNA	XTAM	Xenobiotic-transporting ATPase mRNA
HEMH	Hematopoietically-expressed homeobox protein hhex mRNA	YE3M	Yellow-e3 mRNA
HH3R	Histone H3 mRNA	Z47R	Zinc finger and BTB domain containing 47 mRNA
HH4M	Histone H4 mRNA	ZB1M	Zona pellucida B.1 mRNA
HHMR	3B-Hydroxysteroid dehydrogenase mRNA	ZB2M	Zona pellucida B.2 mRNA
HIIM	Major histocompatibility complex class II alpha mRNA	ZB3M	Zona pellucida B.3 mRNA
HLPM	Hepatic lipase mRNA	ZB4M	Zona pellucida B.4 mRNA
HM1R	Heme oxygenase 1 mRNA	ZB5M	Zona pellucida B.5 mRNA
HM2M	2-domain Hemoglobin mRNA	ZC1M	ZPC1 mRNA
HM4M	Hemoglobin 4 mRNA	ZC2R	Zic family member 2 mRNA
HMAM	3-Hydroxy-3-methylglutaryl-Coenzyme A reductase a mRNA	ZFRM	Zinc finger, RING-type mRNA
HMBM	3-hydroxy-3-methylglutaryl-Coenzyme A reductase b mRNA	ZGCM	zgc:77235 mRNA
HMGM	Hemoglobin mRNA	ZH1M	Zebrafish hatching enzyme 1 mRNA
HMPM	Hemopexin mRNA	ZNFR	Zinc finger protein 729 mRNA
HNKM	Heterogeneous nuclear ribonucleoprotein K mRNA	ZP1M	Zona pellucida protein 1 mRNA
HOMR	Heme oxygenase mRNA	ZP2M	Zona pellucida protein2 mRNA

Code	Definition	Code	Definition
HP5M	Hypothetical protein HMPREF9474_04637 mRNA	ZP3M	Zona pellucida glycoprotein3 mRNA
HP5R	Heat shock 70kDa protein 5 mRNA	ZPAM	ZPA domain containing protein mRNA
HPCR	Hepcidin mRNA	ZPBM	Zona pellucida protein Bb mRNA
HPKM	Homeodomain interacting protein kinase mRNA	ZRMR	Zona radiata mRNA
HSAM	Hemoglobin subunit alpha mRNA	ZYGO	Zygotene

HIS Histology

Code	Definition	Code	Definition
ACAP	Arterial cuff atrophy	HEMR	Hemorrhage
ACTO	Acanthosis	HFLX	Hyperflexion
ALYS	Autolysis	HKTO	Hyperkeratosis
ANAG	Anagen	HRNA	Hernia
ANSK	Anisokaryosis	HYCE	Hypocellularity
ARTS	Arteriosclerosis	HYCR	Hyperchromicity
ASCT	Ascites	HYDS	Hydropic swelling
ASLT	Alpha Islets	HYPL	Hyperplasia
ATPH	Atrophy	HYPT	Hypertrophy
ATRS	Atresia	IFLM	Inflammation
BLSS	Blue sac syndrome	IHGT	Increased height
BODS	Bodies	IMVL	Increased medullary volume
BSLT	Beta Islets	ININ	Intranuclear inclusions
CATG	Catagen	IPDY	Increased portal density
CLFL	Collapsed follicles	IPHM	Increased perivenous homogeneity
CLLD	Colloids	LESI	Lesions
CLPG	Clumping pigment granules	LMLL	Lamellae
CNGT	Congestion	LPHD	Lymphoid depletion
CORN	Cornification	MALN	Misalign, misaligned
CRYT	Crystals	MAPH	Microphthalmia and anophthalmia

Code	Definition	Code	Definition
CSTD	Cestodiasis	MELM	Melanomacrophages
CSTS	Cyst	MHYP	Myeloid hyperplasia
CTHN	Colloid thinning	MYOP	Myopathy
CTRT	Cateracts	NCRO	Necrosis
CTYP	Percent cell type	NCVS	Nuclear vesiculation
CYIN	Cytoplasmic inclusions	NPHG	Nephrogenesis
CYTM	Cytomegaly	NPHR	Nephrosis
CYTP	Cytoplasm	PKTO	Parakeratosis
CYVC	Cytoplasmic vacuoles	PNCH	Parenchyma
DBRS	Debris	PRLF	Proliferation
DEGN	Degeneration	PRVN	Proventriculitis
DISO	Disorganization	RCVL	Reduced corticle volume
DLAT	Dilation	RFSZ	Reduced follicle size
EDMA	Edema	RPCD	Reduced periarteriolar lymphocyte sheath cell density
EHYP	Erythroid hyperplasia	SCNG	Sinus congestion
ENCP	Encephalopathy	SHMT	Sinus haematopoiesis
ENDR	Endarteritis	SHYP	Sinus hyperplasia
ESPH	Esophagitis	SMLN	Severe misalignment
EXCS	Extracellular space	SMMN	Slight to moderate misalignment
EXPT	Exophthalmia	SNAP	Synapses
FBRS	Fibrosis	SOSS	Supernumerary ossification
FUSE	Fuse, fused	SWEL	Swelling
GHIS	Histological changes, general	TELG	Telogen
GLSN	Gross lesions	TFLR	Tissue fluorescence in UV light
GRNM	Granuloma	USTR	Ultrastructural changes
HDPC	Hydropericardium	VCLZ	Vacuolization
		XCPH	Exencephaly

MOR Mortality/Survivorship Group

Code	Definition	Code	Definition
BDAY	Bird days	LIFE	Life expectancy
BDCN	Body concentration	MDTH	Mean time of death
DLMT	Dominant lethal mutations	MORT	Mortality
DTTM	Death with tumors	PSUR	Probability of Survival
EBCN	Effective body concentrations	SURV	Survival
GMOR	Mortality/survival, general	SVVS	Survivorship
HTCH	Hatch	TDTH	Time to death
LBCN	Lethal body concentration	TKNO	Knockdown
LFSP	Lifespan	TLET	Time to 100% mortality

PHY Physiological Group

IMM Immunological

Code	Definition	Code	Definition
ABDT	Antibody titres	IGMT	Immunoglobulin
ABSC	Abscission	IGMY	Immunoglobulin Y
ABSS	Abscess	LKMA	Leukemia
APHY	Autophagy	LYMP	Lymphocyte activity
ASHG	Anti-sheep red blood cell hemaglutinin	MCPG	Macrophage activity
CTKY	Cytokines	MPHG	Microphage function, activity
DHYP	Delayed type hypersensitivity	MYEL	Myelosis
ENCY	Endocytosis	NKCA	Natural killer cell activity
ENMR	Encapsulation or Melanization Response	PARA	Amount or percent animals infested with parasites
GIMM	Immunity, general	PFCR	Plaque forming cell response
HEAL	Healing	PHAG	Phagocytosis
HMRL	Humoral immunity	PNMA	Pneumonia
HTPL	Heterophiles	PRNF	Parasitic infection
IFCT	Infected	PRTU	Proteuria

Code	Definition	Code	Definition
IGMA	Immunoglobulin A	RBST	Respiratory Burst activity
IGME	immunoglobulin E	RSTT	Rosette response, rosette forming cell concentration
IGMG	Immunoglobin G	THIK	Thickness
IGMM	Immunoglobin M	THYM	Thymocyte activity

INJ Injury

Code	Definition	Code	Definition
ABSN	Abrasion	IFRT	Infarction
ADNM	Adenoma	LYPA	Lymphoma
AMLD	Amyloidosis	MTMR	Malignant tumor
AUTO	Autotomy	MUTI	Mutigenesis
BTMR	Benign tumor	OCTB	Occult blood
CLRS	Chlorosis	PLYP	Polyp
CURV	Curvature	SYMP	Symptom severity index
DAMG	Damage	THMB	Thrombosis
DESI	Desiccation	TUMR	Tumor induction
GINJ	Injury, general	ULCR	Ulcer
HDCP	Hydrocephaly	VASC	Vascular disruption
IFLM	Inflammation	WART	Papilloma, wart

ITX Intoxication

Code	Definition	Code	Definition
ANOR	Anorexia	IMBL	Immobile
ATAX	Ataxia	INCO	Incoordination
CONV	Convulsions	MBLT	Mobility
GITX	Intoxication, general	PARL	Paralysis
		TINT	Time to signs of intoxication

PHY Physiology

Code	Definition	Code	Definition
2DOG	2-deoxy-D-glucose	LEUT	Leucine Transport
5HTU	5-Hydroxytryptamine uptake	LPBS	Lipid biosynthesis
AAUP	Amino acid uptake	LTPT	Long-term pontentiation
ABSC	Abscission	LTSP	Leucine transport
ADPE	Adsorption efficiency	MBCR	Metallothionein binding capacity ratio
ADPO	Oxidative phosphorylation	MBPT	Membrane Potential
ADTH	Auditory Threshold	MCCL	Malocclusion
ADUP	Adenine uptake	MCCN	Microorganism cenosis
AECG	Abnormal ECG (electrocardiogram)	MCUS	Mucus production
AECH	Adenylate energy charges (AEC)	MGEX	Magnesium Excretion
AEXR	Ammonia excretion	MGUP	Magnesium uptake
AGUP	Silver uptake	MILK	Milk
AHIN	A-H intervals	MIOS	Miosis
ALAE	Aminolevulinic acid excretion	MNER	Minerialization
ALEX	Aluminum excretion	MNEX	Manganese excretion
AMER	Active Metabolic Rate	MNTL	Manganese translocation
AMQU	Ammonia Quotient (AQ)	MNUP	Manganese uptake
ANBC	Aniline binding capability	MOEX	Molybdenum excretion
ANUP	Aniline uptake	MYCO	Mycorrhizal colonization
APCT	Aerobic protein catabolism	NACL	Sodium clearance
ASML	Assimilation efficiency	NAEX	Sodium Excretion
ASUP	Arsenic uptake	NAFX	Sodium flux
ATFL	Aortic flow	NASM	Nitrogen Assimilation
ATUP	C-14 Acetate uptake	NAST	Nastic movements
AVCD	AtrioVentricular conduction delay	NAUP	Sodium uptake
AXSS	Axis shift	NCOS	Na and Cl osmolality

Code	Definition	Code	Definition
BAAT	rBAT induced amino acid transfer	NEXC	Nitrogen excretion
BDFW	Blood flow	NFIX	Nitrogen fixation
BDVL	Blood volume	NHUP	Ammonia uptake
BEXC	Boron Excretion	NIEX	Nickel excretion
BLPR	Blood pressure	NIUP	Nickel uptake
BLUM	Bioluminescence	NMYC	Non-mycorrhizal colonization
BNDS	Bending strength	NO2U	Nitrite Uptake (NO2-)
BTFT	Butter fat	NO3U	Nitrate Uptake (NO3-)
BTMP	Body temperature	NPRA	Net photosynthetic rate
C14U	C-14 Uptake	NPSC	Net photosynthesis rate to stomatal conductance
CAAS	Calcium assimilation	NPTR	Net photosynthesis rate to transpiration rate
CAEX	Calcium excretion	NRGA	Energy assimilation
CANU	Calcium not excreted	NRGF	Metabolic efficiency
CARE	Calcium retained	NRGI	Energy intake
CARU	Calcium retention to utilization ratio	NRGM	Metabolized energy
CASS	Carbon assimilation	NRGX	Energy excreted
CATR	Calcium transfer	NRSP	Neuroresponse
CATU	Calcium transfer to utilization ratio	NRUP	Neutral red uptake
CAUP	Calcium uptake	NRXN	Nerve reaction
CCCL	Coccolith formation	NSCT	neurosecretion
CDEX	Cadmium excretion	NTSL	Nitrogen translocation
CDIN	Cardiac index	NUPT	Nitrogen uptake
CDOP	Cardiac output	NUUP	Nutrient Uptake
CDUP	Cadmium uptake	NVAR	Nerve absolute refractory period
CEBS	Cytosolic estrogen binding site	NVCV	Nerve conduction velocity
CFIX	Carbon fixation	NVRR	Nerve relative refractory period
CFLW	Coronary flow	OCCP	Oxygen carrying capacity
CLCL	Chloride clearance	OSFG	Osmotic fragility

Code	Definition	Code	Definition
CLEX	Chloride excretion	OSML	Osmolarity
CLFX	Chloride flux	OSMO	Osmolality
CLNC	Clearance	OSPT	Osmotic potential
CLRC	Caloric content	OUPT	Oxygen uptake
CLUP	Chloride uptake	OXRP	Oxidation-reduction potential
CMPS	Compression strength	OXYG	Oxygen consumption
CMRB	Cholinergic muscarinic receptor binding	OXYT	Oxygen tension
CNVY	Conductivity	PAEX	Primary amine excretion
CO2A	Carbon dioxide assimilation	PAMP	P amplitude
CO2F	CO2 Fixation	PBAL	Ponderal balance
CO2T	Carbon dioxide tension	PBEX	Lead excretion
COCE	Coupling coefficient	PBUP	Lead uptake
COEX	Cobalt excretion	PDGT	Protein digestion
COGH	Cough	PERA	Protein efficiency ratio
COLD	Cold hardiness	PERM	Permeability, tissue, membrane
COUP	Cobalt uptake	PEXC	Phosphorus excretion
CPCT	Capacitance	PGPL	Pigment plug ejection
CRAT	Contraction rate	PGSY	Prostaglandin synthesis
CREX	Chromium excretion	PH2O	Water potential, plant
CRSP	Cellular respiration	PIGM	Pigmentation
CRUP	Chromium uptake	PNUT	Phosphorus not excreted
CSTT	Cost of Transport	PPEX	Phosphate excretion
CTIM	Clotting time	PPPL	Photophosphorylation
CTSL	Carbon translocation	PPUP	Phosphate uptake
CUEX	Copper excretion	PRET	Phosphorus retention
CUUP	Copper uptake	PRIN	PR intervals
CYSU	Cystine uptake	PRSY	Protein synthesis
DCRG	Discharge	PRUT	Phosphorus retention to utilization ratio
DFIX	Dark fixation	PSII	Photosystem II (PSII) electron transport activity
DGST	Digestion	PSRP	Pressure potential

Code	Definition	Code	Definition
DORB	Dormancy break change, plants	PSSR	Pressure
DORI	Dormancy induction, plants	PSYI	Photosystem I (PSI) Electron Transport Activity
DPAU	Dopamine uptake	PSYN	Photosynthesis
DPUP	2,4-Dichlorophenol uptake	PTIM	Prothrombin time
DRRH	Diarrhea	PTRN	Phosphorus transfer
DSPS	Diastolic pressure	PTUC	Protein utilization coefficient
ECOT	Energetic Cost of Transport	PTUT	Phosphorus transfer to utilization ratio
ECPT	Energy charge potential	PUPT	Phosphorus uptake
ECTG	Electrocorticogram	QAMP	Q amplitude
ECYC	Estrous cycle	QRSV	Decreased QRS voltage
EECG	Electroencephalogram	QTIN	QT interval
EEUR	Endogenous excreted urea	RAMP	R amplitude
EFFC	Efficiency	RBCD	Relative bradycardia
EMCN	Emaciation, emaciated	RCRA	Renal clearance ratio
ENST	Encystment	RESP	Respiration
EOCL	Electro-oculography	RESQ	Respiration quotient
EPYR	Electrophysiological response	RFLT	Reflectivity
ERLD	Electroretinography light peak/dark ratio	RPRT	Respiratory rate
ERWA	Electroretinography wave amplitude	RSNV	Resin volume
ERWI	Electroretinography wave implicit time	RSQU	Respiratory Quotient
ERWL	Electroretinography wave latent time	SAMP	S amplitude
ERWV	Electroretinography wave	SBNF	Swim bladder inflation
ESGM	Estrogen metabolism	SCGR	Scope for growth
ESUP	Eosin uptake	SCTN	Secretion
ETRR	Electron Transport System activity to respiration ratio	SENI	Senescence induced/accelerated
ETSA	Electron transfer system activity	SENR	Senescence retarded

Code	Definition	Code	Definition
EXCR	Excretion rate	SEUP	Selenium uptake
EYTH	Erythema	SIDP	Siderophore production
FABS	Factorial Aerobic Scope	SLVN	Salivation
FATT	Obese	SMRE	Stomatal Resistance
FDAR	Food absorption rate	SMTR	Standard Metabolic Rate
FDCV	Food conversion efficiency	SOXA	Sulfide oxidation activity
FECL	Fecal production	SOXG	Superoxide generation
FEEX	Iron excretion	SRLO	Spectral reflectance change/shift to long
FEPP	Fecal production	SRSH	Spectral reflectance change/shift to short
FEUP	Iron uptake	STAS	Stasis
FLUX	Flux, across membranes	STCG	S-T changes
FVOL	Fluid volume	STIN	ST interval
GAEX	Glycolic acid excretion	STOC	Stomatal conductance
GCBN	Gap charge balance	STOM	Stomatal aperture
GFRT	Glomerular filtration rate	STVL	Stroke volume
GLFO	Galactocele formation	STWK	Stroke work
GLGN	Glucogenesis	SUPT	Sulfur uptake
GLSY	Glycogen synthesis	SUUP	Sucrose uptake
GLUP	Glucose uptake	SWEL	Swelling
GLYU	Glycine uptake	SYPS	Systolic pressure
GPHY	Physiology, general	SZRE	Seizure
GRAU	Granule/grain creation	T34C	T3/T4 Conversion rate
GSTF	Gas transfer	TAMP	T amplitude
GYCU	Glycerol uptake	TCO2	Transpiration Carbon Dioxide assimilation ratio
GYEX	Glycolate excretion	TDUP	Thymidine uptake
H3BD	Hemicholium-3 binding	TEAR	Lacrimation, Tearing
H3UP	H-3 uptake	TEUR	Total excreted urea
HCFX	Hydrogen Carbonate flux	TEVG	trans-epithelial voltage gradient
HGUP	Mercury uptake	TEXT	Texture change
HLSS	Alopecia, Hair loss	THBR	Thyroid hormone binding ratio

Code	Definition	Code	Definition
HNPH	Hydronephrosis	THRG	Thermoregulation
HPRR	Heat production rate	THTS	Thermal hysteresis
HPSR	High pressure	TIRD	Languid,tired, weak
HTDP	Heart double product (heart rate*cardiac output)	TNST	Tensile Strength
HTRT	Heart rate	TO2F	Oxygen transfer factor [TO2]
HYDR	Hydration	TRAN	Transpiration
HYPR	Hyperactivity	TRGE	Triglyceride excretion
HYTN	Hypertension	TSUP	L-Tyrosine uptake
INRE	Input resistance	TTKG	Transtubular potassium gradient
IOUP	Ion uptake	TYUP	Thymine uptake
IRAX	Cell Migration Inhibition (Immune Response Activity)	UDUP	Uridine uptake
IRRI	Irritation	URUP	Uranyl uptake
IUPT	Iodine uptake	VCDT	Vascular conductance
IVCD	Intraventricular conduction defects	VENT	Ventilation
JRAC	Junctional resistance (AC)	VISC	Viscosity
JRDC	Junctional resistance (DC)	VMRS	Vasomotor response
KEXC	Potassium excretion	VOLU	Volume
KFLX	Potassium Flux	VSCR	Vascular resistance
KPCL	Potassium clearance	WATB	Water balance
KUPT	Potassium uptake	WILT	Wilt
LABS	Leucine absorption	WLSS	Water loss
LDGT	Lipid digestion	WTUP	Water uptake
LDMT	Lipid metabolism	XCPG	Xanthophyll cycle pigments
LDPX	Lipid peroxidation	ZNEX	Zinc excretion
		ZNUP	Zinc uptake

POP Population Group

POP Population

Code	Definition	Code	Definition
ABND	Abundance	LCON	Length/duration of a chemical effectiveness
APCY	Allophycocyanin	LCYC	Lifecycle
BMAS	Biomass	NCHG	Population change (change in N/change in time)
CARC	Carotenoid content	NGEN	Number of generations
CHAB	Chlorophyll A:Chlorophyll B	PBRA	Population biomass turnover ratio
CHAP	Chlorophyll A to Phaeophytin A ratio	PCBL	Phycobilin
CHCT	Chlorophyll:Carotenoids	PCCP	Population carrying capacity
CHLA	Chlorophyll A concentration	PGRT	Population growth rate
CHLB	Chlorophyll B concentration	PHYC	Phycocyanin
CHLC	Chlorophyll C concentration	PPYT	Phaeophytin
CHLO	Chlorophyll	PRAS	Prasinoxanthin
CNTL	Control	PRPE	Predator-prey dynamics
COVR	Cover, canopy	PSII	Photosystem II (PSII) electron transport activity
CRCA	Carotenoids Chlorophyll A ratio	PSYN	Photosynthesis
DBLT	Population doubling time	RCLN	Colonization rate
DBMS	Dry Biomass	RCPR	Recapture ratio
DMTR	Diameter	SEXR	Sex ratio
DRFT	Drift	SFCA	Surface Area
DVRS	Diversity, Evenness	SPGR	Specific growth rate
EBCN	Effective body concentrations	SRFA	Surface area
GENT	Generation time	STTL	Settling
GPOP	Population changes, general	SZDS	Size distribution
INDX	Index to population size; count, number, abundance	THCH	Thatch accumulation
IRIN	Intrinsic rate of increase	TRAP	Trappability

Code	Definition	Code	Definition
LAGT	Lag time	VIDX	Viability index
		WGHT	Weight

REP Reproduction Group

AEG Avian/Reptile Egg

Code	Definition	Code	Definition
ALEG	Albumen:Eggshell Quality (Haugh Units)	QUAL	Quality
BLSP	Blood spots	SGRV	Specific gravity
BSCP	Basal cap	SHLL	Percent shell
CRAK	Cracking	SIZE	Size
ESIN	Eggshell index	SOFT	Softness
FERT	Fertility	STGH	Strength
GAEG	General Avian/Reptile Egg Effect	THIK	Thickness
INFT	Infertile	VIAB	Viability
LGTH	Length	VOLU	Volume
LSTE	Eggs lost	WDTH	Width
MMMC	Mammillary core	WGHT	Weight
		YOLK	Yolk, percent

REP Reproduction

Code	Definition	Code	Definition
0RSM	No resorbed embryos	NMNT	Non-mount
ABNM	Abnormal	NOIM	Number of implantations
ABRT	Abort	NOPN	Number of organisms per nest
AFST	Atretic follicle stage	NPOD	Pods, number of
ARFS	Accessory reproductive fluid	NPRG	Not pregnant
BDEP	Bird day egg production	NREP	Non-reproducing organisms

Code	Definition	Code	Definition
BMAS	Biomass	NRPR	Net Reproductive Rate
BNDG	Pair bonding nesting behavior	NSNT	Successful nests
BRED	Bred	NSPN	Number spawning
BTCF	Beat/Cross frequency	NSTI	Nest initiation
CLLT	Clutch length	NSTS	Number of active nests
CLNE	Cloning efficiency	NTSZ	Nest size
CLPD	Clutch production	NUNT	Unsuccessful nests
CLUB	Clubbing (hydra reproduction)	NVIB	Non-viable
COUR	Courtship behavior	OBRD	Open brood
CRCE	Circular cells	OEGP	Onset of egg production
CYNG	Care of young, nest attentiveness	OOCY	Fully developed oocytes
DSTR	Diestrus	OVRT	Ovulation rate
EBCN	Effective body concentrations	PCNT	Placentation
EGPN	Eggs per nest	PFST	Primary follicle stage
EPTT	Epididymal transit time	PILS	Post-implantation loss
EREM	Early resorbed embryos	PIPD	Pipped
ETRS	Estrus	PLBR	Pairs with litter or brood
FCND	Fecundity	PREG	Pregnant, Paris or Gravid
FERT	Fertility	PRFM	Pregnant females in a population
FERZ	Fertilization	PROG	Progeny counts/numbers
FIDX	Fertility index	PRPL	Pre-implantation loss
FLOR	Floral induction	PRTH	Parthenocarpy
FRMS	Frames, bees	PSPG	Pseudopregnancy
FRUH	Percent fruit harvested	PSTG	Stage of pregnancy
FRUT	Fruit, fruiting	PSTR	Proestrus
FTCC	Fertile cocoons	RBEH	Reproductive behavior changes
GCCT	Germ cell count	RBLM	Repeat bloom
GERM	Germination	REPO	Reproducing organisms
GEST	Gestation rate	RPRD	Reproductive capacity
GFST	Graafian follicle stage	RSEM	Resorbed embryos

Code	Definition	Code	Definition
GIDX	Gestation index	RSUC	Reproductive success (general)
GMEN	Germination energy	SBRD	Sealed brood
GMET	Gamete production	SDIX	Seed index
GREP	Reproduction, general	SEED	Seed number
GSTT	Gestation time	SEPD	Seed or spore production
HDEP	Hen-day egg production	SFST	Secondary follicle stage
HHEP	Hen-housed egg production	SPCL	Sperm cell counts
HTCH	Hatch	SPMC	Spermatocytes
IFCC	Infertile cocoons	SPMG	Spermatigonia
INFL	Inflorescences (number of)	SPNF	Spawning frequency
INFT	Infertile	SPRD	Sporophyte production
LACG	Lactating	SRTL	Sertoli cells
LBIX	Live Birth Index	SSET	Seed set (no. seeds/no. florets)
LHMN	Mean amplitude of lateral head displacement	STRL	Sterility
LHMX	Maximum amplitude of lateral head displacement	T50P	Time to 50% production
LIDX	Lactation index	TFPG	Time to first progeny
LNRY	Linearity	TMNT	Time to mounting
LREM	Late resorbed embryos	TMSC	Penile Tumescence
MIDX	Mating index	TPRD	Total production
MONT	Mounting, copulation, intercourse	TPRG	Time to pregnancy/gravidity
MOTL	Motility	TSPN	Time to spawn
MSPW	Mean spawns per female	TTPR	Time to peak reproduction
MSTR	Metestrus	TUPR	Tuber production
NANT	Nests abandoned	USTS	Unknown estrus stage
NCLU	Corpus lutea, number of	VAOP	Vaginal opening
NDAY	Number of days between eggs laid or litters	VCTY	Velocity
NEGI	Number of eggs incubated	VEGR	Vegetative reproduction
NFOL	Number of ovarian follicles	VIAB	Viability
NINC	Number of nests incubated	VITG	Vitellogenesis
		VPLG	Vaginal/Copulatory plug

SYS Ecosystem Group

PRS Ecosystem Processes

Code	Definition	Code	Definition
BGCM	Biogeochemical	NITR	Nitrification
CMIN	Carbon mineralization	NMIN	Net mineralization
CO2G	Carbon dioxide generation	OUPT	Oxygen uptake
CO2P	CO2 evolution	PPRO	Primary productivity
DCMP	Decomposition	SPRO	Secondary productivity
GPPR	Gross primary productivity/respiration	SRES	System respiration
GPRS	Ecosystem processes, general	TROP	Trophic transfer between different levels in the food chain

NOC No Group Code

Code	Definition	Code	Definition
MULT	Multiple effects reported as one result	NRNR	Endpoint reported without a specific

Sample Unit

Code	Definition	Code	Definition
--	Unspecified	LE7	7th leaf
AB	Aboveground portion [plant]	LE8	8th leaf
AD	Adult	LT	Litters
AL	Alevin	LV	Larvae
BH	Both male and female	M1	Males, 1st generation
BR	Brood	M2	Male, 2nd generation
C1	First clutch, brood or litter	M3	Male, 3rd generation
C2	Second clutch, brood or litter	M4	Male, 4th generation
C3	Third clutch, brood or litter	M5	Male, 5th generation
CB	Combs	M6	Male, 6th generation
CC	Cocoons	MD	Mature dormant
CL	Cells	MFE	Male fetus
CO	Colony	MG	Male gametophyte
CT	Containers	ML	Male organisms
DC	Deceased organism	MT	Mature (no specified age)
EG	Egg	MU	Multiple
EM	Embryo	MULT	Multiple response sites
EU	Experimental unit	MX	Males, multiple generations
F0	F0 generation	NC	Not coded
F1	F1 generation	NF	Non-pregnant females
F2	F2 generation	NR	Not reported
F3	F3 generation	NT	Nest
F4	F4 generation	NU	Nauplii
F5	F5 generation	NY	Nymph(s)
FB	Mature, full-bloom (fruit trees)	OR	Organism
FD	Frond(s)	P1	Parent, 1st generation
FE1	1st leaf	PA	Parr
FET	Fetus	PB	Mature, post-bloom (fruit trees)
FF	Fields (agricultural)	PC	Plant cutting (unspecified)

Code	Definition	Code	Definition
FFE	Female fetus	PF	Pregnant females
FG	Female gametophyte	PH	Mature, pit-hardening (fruit trees)
FI	Fingerling	PL	Plots
FL	Flower(s)	PO	Pollen, pollen grains
FM	Female organisms	PR	Pair
FR	Fruit	PT	Petioles
FT	Froglet	PU	Pupae
FX	Multiple generations	PV	Post-larva
FY	Fry	RB	Mature reproductive, 2nd generation
G1	Females, 1st generation	RC	Mature reproductive, 3rd generation
G2	Female, 2nd generation	RO	Root
G3	Female, 3rd generation	RP	Mature reproductive
G4	Female, 4th generation	RS	Root segments
G5	Female, 5th generation	SA	Subadult
G6	Female, 6th generation	SC	Second generation (m2), no specific stage
GR	Grains	SD	Seed
GS	Germinated seed	SF	Sac fry, yolk sac fry
HC	Honey comb	SG	Mature, side-green (fruit trees)
HT	Hatchling	SHL	Shell
IM	Immature	SL	Seedling
JV	Juvenile	SM	Samples
KR	Kernel	SO	Shoot
LE	Leaf	SOT	Shoot tip
LE1	1st leaf	SPR	Spore
LE2	2nd leaf	SV	Survivor
LE3	3rd leaf	TA	Tadpole
LE4	4th leaf	TC	Tissue culture callus
LE5	5th leaf	TU	Tubers
LE6	6th leaf	VC	Vegetative clone
		VG	Mature vegetative

Trend

Code	Definition	Code	Definition
--	Unspecified	INC	Increasing
CHG	Change	NC	Not Coded
DEC	Decreasing	NEF	No effect
		NR	Not Reported

Significance

Code	Definition	Code	Definition
--	Unspecified	NA	Not applicable
ANOSIG	Not significant at all concentrations	NOSIG	No significance
ASIG	Significant at all concentrations	NR	Not reported
MULT	Multiple significance	SIG	Significant

Reviewer Assigned Endpoint

Code	Definition	Code	Definition
P	Publication reported endpoint	M	Multiple values
R	Reviewer assigned endpoint	NC	Not Coded
X	Unknown	NR	Not Reported

Response Site

Code	Definition	Code	Definition
--	Unspecified	MPT	Malpighian tubule
AB	Aboveground portion	MR	Membrane
ABD	Abdomen	MRC	Motor cortex
ABP	Abdominal process	MS	Mesenteric lymph node
AD	Adipose tissue	MSC	Mesencephalon
ADC	Auditory center	MSI	Mucosa of the small intestine
AF	Amniotic fluid	MT	Multiple tissue/organ
AG	Accessory gland	MTC	Metacarpus
AL	Albumen (egg white)	MTH	Mouth
ALG	Albumen gland	MTM	Mentum
AM	Adductor muscle	MU	Muscle
AMG	Amygdala	MUL	Multiple sites
ANG	Antennal gland	MV	Microvilli
ANT	Antenna (antennae)	MYC	Mycellium
AO	Anogenital	MYM	Myometrium
AP	Appendage(s)	NAC	Nucleus accumbens
AR	Adrenal gland	NAL	Nail
ART	Artery	NB	Nasal bone
AS	Air sac	NC	Not coded
AT	Alimentary tract	ND	Nodule, root
ATA	Aorta	NE	Nervous tissue
ATH	Abdomen and thorax	NEM	Neuromasts
ATM	Atrium	NG	Nasal gland
ATR	Anther	NI	Nipple
AX	Axons	NK	Neck
BA	Bark	NL	Needle
BB	Bulb	NOC	Notochord
BBL	Barbel	NOD	Node
BC	Buccal mass	NP	Nuptial pad

Code	Definition	Code	Definition
BCT	Bract	NR	Not reported
BD	Bud	NSE	Nose
BDT	Bile duct	NT	Neural tube
BDW	Body wall	NTR	Nectar
BF	Bursa of fabricius	NU	Nuclei
BG	Breeding (nuptial) gland	NVC	Nerve cord
BI	Bile	NVL	Navel
BIL	Bill	NY	Nymph
BIT	Biliary tract	OC	Oocyte
BK	Beak	OCL	Occipital lobe
BL	Blood	OD	Oviduct
BLC	Blood cell	OF	Orifice
BM	Bone marrow	OG	Organ
BMC	Bone marrow cells	OL	Olfactory
BMP	Bone marrow plasma	OPN	Optic nerve
BO	Bone	OPR	Operculum
BOL	Boll (cotton)	OR	Organelle
BR	Brain	OS	Osphradium
BRN	Branches	OT	Opisthaptor
BRS	Brain stem	OTO	Otoliths
BSG	Basal ganglia	OTV	Otic vesicle
BT	Breast	OV	Ovaries
BU	Bursa	OVF	Ovarian follicle
BV	Blood vessel	OVP	Ovipositor
BW	Bees wax	OVT	Ovotestis
BY	Byssus	PA	Palps
CA	Cartilage	PAN	Panicle
CAE	Caecum	PAT	Parathyroid gland
CAN	Canopy	PB	Pseudobranch
CAP	Cap, mushroom	PBD	Projectile body

Code	Definition	Code	Definition
CB	Cob	PC	Pyloric ceca
CBC	Cerebral cortex	PCL	Peduncle
CBH	Cerebral hemisphere	PD	Pod
CBM	Cerebrum	PDG	Pedal ganglion
CC	Cocoon	PE	Penis
CCM	Cecum	PEH	Penis sheath
CDB	Caudal bone	PEP	Pecten epipharyngis
CDP	Caudal peduncle	PES	Petiole and stem
CDV	Caudal vertebrae	PF	Pseudofeces
CE	Coelomic fluid	PG	Prostate gland
CEL	Cell	PGL	Preening gland
CG	Cloacal gland	PHG	Pheromone gland
CGG	Coagulating gland	PHL	Phalanges
CH	Spinal cord	PHO	Phloem
CHC	Chloragogen	PI	Pituitary gland
CHN	Choana	PL	Plasma
CHO	Chorion	PLA	Platelet
CHP	Choroid plexus	PLC	Placenta
CIL	Cilia	PLL	Pellicle
CL	Claw	PLN	Popliteal node
CLC	Cloaca	PLP	Pulp
CLM	Coelomocytes	PLT	Palate
CLN	Colon	PLV	Pelvis
CLT	Clitoris, clitoral gland	PLY	Polysaccharide
CLU	Clitellum	PM	Pons + medulla
CLV	Calvarium	PNG	Pineal gland
CM	Crown to rump	PO	Pollen, pollen grains
CMB	Comb	POS	Pod + seed
CN	Cotyledon	PPD	Parapodium
CNS	Central nervous system	PPG	Preputial gland

Code	Definition	Code	Definition
CO	Collagen	PR	Proventriculus
COL	Coleoptile	PRC	Pericardium
COR	Corm	PRF	Particulate fraction
COS	Corpuscles of stannius	PRG	Progeny
CP	Capat	PRO	Protein
CPG	Cowper's gland	PRT	Peritoneum
CPS	Carpus	PS	Pancreas
CPT	Chloroplast	PSG	Plastglobuli
CR	Crop	PSL	Pistil
CRB	Cerebellum	PT	Petiole
CRG	Cerebral ganglion	PTB	Parietal bone
CRI	Cervical rib	PTG	Parotid gland
CRM	Cerebrum	PTL	Petal
CRN	Cornea	PTU	Plant, unspecified
CRP	Carapace	PU	Pollen tube
CRR	Cerebellar region	PV	Perivitelline space
CS	Chromosome	PX	Pharynx
CSF	Cerebrospinal fluid	PYR	Pyrenoid
CST	Cisternae	RA	Radius
CT	Cephalothorax	RAC	Rachis
CTE	Ctenidium	RAD	Radius, distal
CU	Culture cells	RB	Rib
CUT	Cuticle	RC	Rectum
CV	Caudal vertebra	RD	Radicle
CVM	Calvarium	RDL	Radiole
CVV	Cervical vertebrae	RE	Retina
CVX	Cervix	RFM	Right femur
CX	Caudex	RG	Rectal gland
CY	Cytosol	RH	Rhizome
CYT	Cytoplasm	RL	Root, lateral

Code	Definition	Code	Definition
DG	Digestive gland	RLP	Root, primary lateral
DGT	Digit	RLS	Root, second lateral
DI	Diaphragm	RM	Retractor muscle
DN	Diencephalon	RNC	Renal cortex
DO	Duodenum	RNM	Renal medulla
DT	Digestive tract	RO	Root
EAL	Ear leaf	ROC	Root cortex
EAR	Ear	ROE	Root epidermis
EBP	External body parts	ROI	Root, inner cortex
EC	Excreta	ROO	Root , outer cortex
ED	Endometrium	ROS	Root, stele
EF	Efferent ducts	RP	Root, primary
EG	Egg	RPP	Renal papilla
EL	Elytrom	RR	Residual, remnant, carcass
EM	Embryo	RS	Root + stem
EMS	Embryonic shoot cells	RT	Reproductive tissue
EN	Entrails	RTB	Right tibia
EO	Endothelium	RTC	Root tip cells
EP	Endoplasmic reticulum	RTE	Rete testis
EPD	Epididymis	RTP	Root tips
EPF	Extrapallial fluid	RU	Radius-ulna
ER	Erythrocyte	RV	Right ventricle
ES	Esophagus	RZ	Root + rhizome
ET	Edible tissue	SA	Salt gland
EU	Egg cuticle	SAC	Striatum-accumbens
EV	Exuviae	SAP	Sap
EX	Exoskeleton	SB	Shell, membrane
EY	Eye	SB2	Stem/stalk,lower half
EYS	Eyestalk	SC	Scale
EZ	Enzyme	SCH	Starch

Code	Definition	Code	Definition
F1	F1 generation	SCM	Scrotum
FAC	Face	SCP	Scapula
FB	Frontal bone	SCV	Sacral vertebrae
FBR	Forebrain	SCY	Spermatocyte
FC	Feces	SD	Seed
FD	Frond	SDL	Seedling
FE	Feathers	SDM	Subdermis
FET	Fetus	SE	Sensory organs
FG	Foregut	SEM	Semen
FI	Fin	SG	Shell gland
FIB	Fibula	SH	Stomach
FL	Fillet	SHF	Stomach or rumen fluid
FLB	Flower bud	SI	Siphon
FLW	Flower/inflorescence	SIN	Small intestine
FM	Femur	SINM	Small intestine mucosa
FMD	Femur diaphysis	SINS	Small intestine serosa
FME	Femur epiphysis	SK	Skin, epidermis
FML	Left femur	SKL	Skull
FMM	Femur metaphysis	SKM	Skeletal muscle
FO	Foot	SLK	Silk
FOD	Fodder	SLL	Shell
FOL	Foliage	SLV	Stem to leaves
FOR	Forage	SM	Sperm
FP	Fatpad	SMT	Spermatheca
FR	Fruit	SN	Skeleton
FRL	Forelimb	SO	Shoot
FX	Frontal cortex	SOT	Shoot tip
GA	Granum (plural grana)	SP	Spleen
GB	Gall bladder	SPB	Sphenoid bone
GC	Gland complex	SPC	Superior colliculus

Code	Definition	Code	Definition
GF	Green forage	SPI	Spine, backbone
GG	Green gland	SPK	Spikelet
GI	Gill(s)	SPL	Sepal
GL	Ganglion	SPR	Sporophyte
GMT	Germ tube	SPS	Spines, protuberant structures
GNP	Genital papillae	SPT	Spermatid
GNT	Gnathopod	SR	Serum
GO	Gonad(s)	SRB	Strobilus
GOL	Golgi apparatus	SRC	Secretory cell
GP	Gills+palps	SS	Stem
GPD	Gonopodium	SSC	Somatosensory center
GR	Grain	SSI	Serosa of the small intestines
GS	Germinated seed	SSP	Stems plus petioles
GT	Gastrointestinal tract	ST	Soft tissue
GU	Gut	STA	Setae
GY	Gametophyte	STB	Semeniferous tubules
GZ	Gizzard	STE	Sternum or sternebrae
HA	Hair	STG	Straw and grain
HAP	Haptonema	STH	Straw and husk
HAY	Hay	STL	Stolon
HB	Hindbrain	STM	Striatum
HC	Hypocotyl callus cell	STN	Stamen
HD	Head	STO	Stoma
HDG	Hindgut	STR	Straw
HDK	Head kidney (pronephros)	STV	Stover
HE	Heart	SU	Stalk/stem,upper half
HIP	Hippocampus	SV	Seminal vesicle
HK	Heart and kidneys	SVA	Saliva
HKG	Husks and grain	SVG	Salivary gland
HL	Hemolymph	SWB	Swim bladder

Code	Definition	Code	Definition
HLA	Hyalinocyte	SX	Submaxillary gland
HLB	Hindlimb	TA	Tail
HM	Humerus	TAK	Thylakoid
HMC	Hemocyte	TB	Tibia
HMG	Hemoglobin	TBC	Tubercles
HO	Honey	TCH	Trachea
HOD	Hyoid	TCV	Thoracic vertebrae
HP	Hepatopancreas	TD	Transudate
HPG	Hypopharyngeal gland	TE	Testes
HSK	Husk	TEL	Testicle, left
HTC	Heterocyst	TER	Testicle, right
HTG	Hatching gland	TF	Tuber flesh
HY	Hypothalamus	TG	Thigh muscle
HYA	Hypha	TH	Thorax
HYD	Hypodermis	THA	Thorax and abdomen
HYP	Hypocotyl	TI	Tissue
IB	Interparietal bone	TIL	Tillers
IBP	Internal body parts	TK	Trunk
ICL	Inclusions	TKK	Trunk kidney
IE	Ileum	TLE	Trifoliate leaves
IL	Ilium	TLI	Thalli
IN	Intestinal tract	TLM	Thalamus
IR	Interrenal gland	TLN	Telencephalon
IT	Internode	TLS	Talus
JA	Jaw	TM	Tarsus-metatarsus
JE	Jejunum	TMR	Tumor
JV	Juvenile	TN	Tentacles
KI	Kidney	TO	Tongue
KIL	Kidney, left	TOP	Tops (plants)
KIR	Kidney, right	TOR	Torso

Code	Definition	Code	Definition
KR	Kernal	TP	Tuber peeling
LAL	Lateral line	TR	Tarsus
LAM	Laminae	TRD	Tear duct
LC	Leaf chloroplast	TS	Thymus
LD	Lipid, fat	TSC	Thymus cortex
LE	Leaf/needle	TSL	Tassel
LEI	Leaf index	TSM	Thymus medulla
LEN	Lens	TT	Tibiotarsus
LEO	Leaf, old	TTH	Tooth, teeth
LEU	Leukocytes	TU	Tuber
LEY	Leaf, young	TY	Thyroid
LG	Leg	UB	Urinary bladder
LGT	Ligament	UBG	Ultimobranchial gland
LI	Liver	UG	Uropygial gland
LIG	Leibleins gland	UL	Ulna
LIM	Liver microsomes	ULE	Unifoliate leaves
LIN	Large intestine	UNT	Urinary tract
LIP	Lip	UP	Urogenital papillae
LIT	Litters	UR	Urine
LM	Limb	URT	Ureter
LMP	Lymphocyte	UT	Uterus
LMV	Lumbar vertebrae	UTH	Urethra
LMW	Low molecular weight biomolecules (e.g., amino acids)	VA	Vagina
LN	Lymph node	VAS	Vasculature
LNX	Larynx	VC	Visual center
LP	Labial palps	VCL	Vacuole
LTB	Left tibia	VD	Vas deferens
LU	Lung(s)	VE	Vertebra
LYM	Lymph	VEN	Vein

Code	Definition	Code	Definition
LYS	Lysosome	VG	Vegetative portion
MA	Mantle	VGL	Visceral ganglion
MB	Muscle+bone	VI	Viscera
MBR	Midbrain	VL	Villi
MC	Microsome	VN	Vine
MDP	Madreporite	VNT	Ventricle
ME	Meristem	VNTL	Ventricle, left
MES	Mesentery	VSC	Vesicle
MI	Midgut or midgut gland	VV	Valve
MIT	Mitochondria	WD	Wolffian duct
MK	Milk, lactating female	WI	Wings
ML	Melanophore	WL	Wall, body
MM	Mammary tissue	WM	White matter
MNS	Manus	WO	Whole organism
MO	Mucous	WR	Wrist
MOB	Medulla oblongata	XY	Xylem
MOM	Mother cells, pollen	YO	Yolk
MP	Metanephridium	YS	Yolk sac
MPG	Macrophage	ZP	Zona pellucida

AQUATIC WATER CHEMISTRY FIELDS CODES

* denotes value is the dilution water chemistry

Water Chemistry Unit

Code	Definition	Code	Definition
		meq/g	milliequivalents per gram
%	percent	meq/kg	milliequivalents per kilogram
% Sat	percent saturation	mg/100 g soil	milligrams per 100 grams soil
--	Unspecified	mg/15 ml	milligrams per 15 milliliters
0/00	parts per thousand	mg/15 ml	mg/15 ml
C	Celsius	mg/L	milligrams per liter
F	Fahrenheit	mg/L C	milligrams per liter Carbon
FS	French Hardness	mg/L CO3	milligrams per liter carbonate
HARD	Hard water	mg/L CaCO3	milligrams per liter Calcium carbonate
HARD*	Hard water	mg/L CaO	milligrams per liter Calcium oxide
HCO3	Hydrogen carbonate	mg/L FA	milligrams per liter Fulvic Acid
K	Kelvin	mg/L HA	milligrams per liter Humic Acid
KG/HA	KG/HA	mg/L HCO3	milligrams per liter Hydrogen Ca
LOW	Low	mg/L HCO3	mg/L HCO3
M	Molar	mg/L MO	milligrams per liter Methyl Orange
M NaCl	Molar Sodium Chloride	mg/L Mg	miligrams per liter Magnesium
MM	MM	mg/L, Ca	milligrams per liter, Calcium
MMOL/L	MMOL/L	mg/L, Ca	mg/L, Ca
MOD	Moderate	mg/dm3	milligram per cubic decimeter
Mod Hard	Moderately hard water	mg/dm3 CaCO3	milligrams per cubic decimeter Calcium carbonate
N	Normal	mg/g soil	milligrams per gram soil
NC	Not coded	mg/kg	milligrams per kilogram
NR	Not reported	mg/kg soil	milligrams per kilogram soil

Code	Definition	Code	Definition
PPM	PPM	mg/l EDTA	milligrams per liter EDTA
PSU	practical salinity units	mg/ml	milligrams per milliliter
RA	Ratio	mg/ml CaCO3	milligrams per milliliter CaCO3
S	Siemens	mgL	mgL
S/cm	Siemens per centimeter	mho	mho
S/m	Siemens per meter	mho/cm	mho per centimeter
SAT	Saturated	ml N/100 HCl	milliliters nitrogen per 100 HCl
SAT*	Saturated	ml/L	milliliter per liter
SOFT	Soft water	mm	millimeters
SOFT*	Soft water	mm Hg	millimeters mercury
UG/L	UG/L	mmhos	milli ohms
UM	UM	mmhos/cm	milli ohms per centimeter
UMOL/L	UMOL/L	mmol	millimoles
V HARD	Very hard	mmol	mmol
V SOFT	Very soft	mmol K+/kg	millimoles K+ per kilogram soil
cc/L	cubic centimeters per liter	mmol/100g	millimoles per 100 grams soil
cm	centimeters	mmol/L	millimoles per liter
cmol P+/kg	centimoles P+ per kilogram soil	mmol/L CaCO3	millimoles per L Calcium Carbonate
cmol+/100 g	centimoles +ions per 100 grams soil	mmol/L OH	millimoles per liter Hydroxide
cmol+/kg	centimoles + ions per kilogram s	mmol/dm3	millimoles per cubic decimeter
cmol/g	centimoles per gram soil	mmol/kg	millimoles per kilogram soil
cmol/kg	centimoles per kilogram soil	mol/kg	moles per kilogram
cmol/kg	cmol/kg	mval/100g	millivalue per 100 grams
cmol/kg d soil	centimoles per kilograms dry soil	ohm/cm	ohm per centimeter
dH	degrees hardness	ohm/cm2/mol	ohms per square centimeters per mole
dS/m	deciSiemens per meter	ohms	ohms
ft	feet	ppb phenolphth	parts per billion phenolphthalein

Code	Definition	Code	Definition
g	grams	ppm	parts per million
g CaCO3	grams Calcium carbonate	ppm CaCO3	parts per million Calcium Carbon
g/100g	grams per 100 grams	ppm CaCO3/	parts per million Calcium Carbon
g/3.5L	g/3.5L	ppm MO	parts per million Methyl Orange
g/L	grams per liter	ppt	Parts per trillion
g/L CaCO3	grams per liter Calcium carbonate	uM	micro molar
g/dm3	grams per cubic decimeter	uM/L	uM/L
g/kg	grams per kilogram	uM/cm	micromolar per centimeter
g/kg soil	grams per kilogram soil	uS	micro Siemens
g/m2	grams per square meter	uS/L	microSiemens per liter
g/m3	grams per cubic meter	uS/cm	micro Siemens per centimeter
g/m3 CaCO3	grams per cubic meter Calcium Carbonate	uS/cm2	microSiemens per square centimet
in	inches	uS/cm3	microSiemens per cubic centimete
kDa	kilo Daltons	uS/m	microSiemens per meter
kg/ha	kilograms per hectare	uS/s	microSiemens per second
m	meters	uV	microvolts
mM	millimolar	ueq/L	micro equivalents per liter
mM CaCO3	millimolar Calcium carbonate	ug/L	micrograms per liter
mN	millinormal	ug/L CaCO3	micrograms per liter Calcium carbonate
mN	mN	ug/dm3	micrograms per cubic decimeter
mOhm	milliohms	ug/ml	micrograms per milliliter
mOsm	milliosmoles	umho/sec2x1E-3	microohms per second2 x 1E-3
mS	milli Siemens	umhos	micro ohms
mS/cm	milli Siemens per centimeter	umhos/L	microohms per liter

Code	Definition	Code	Definition
mS/cm2	milli Siemens per square centimeter	umhos/cm	micro ohms per centimeter
mS/cm3	milli Siemens per cubic centimeter	umhos/cm2	micro ohms per square centimeter
mS/m	milli Siemens per meter	umhos/cm3	micro ohms per cubic centimeter
mV	millivolts	umhos/s	micromhos per second
me/100g	milliequivalents per 100 grams s	umhos/um	micromhos per micrometer
meq	milli equivalents	umol/L	micromoles per liter
meq A/100g	milliequivalents NH4per 100g	umol/L CaCO3	micromoles per liter Calcium Car
meq mg/g	milliequivalent milligrams per g	umol/cm	micromoles per centimeter
meq/100 g	meq/100 g	umol/g LIT	micromoles per gram litter
meq/100g	milliequivalents per 100 grams s	umol/kg	micromoles per kilogram
meq/100ml	milliequivalents per 100 milliliters	umol/ml	micromoles per milliliter
meq/L	milli equivalents per liter	uohm/cm	micro ohms per centimeter
		usec	microsecond

Organic Carbon Type

Code	Definition	Code	Definition
--	Unspecified	P	Particulate
D	Dissolved	T	Total

OUTDOOR FIELD CODES

Habitat Code

Code	Definition	Code	Definition
--	Unspecified	M	Marine
D	Desert	NC	Not Coded
E	Estuarine	NR	Not Reported
F	Forest	P	Palustrine
G	Grasslands	R	Riverine
L	Lacustrine	T	Tundra

Substrate Code

Code	Definition	Code	Definition
--	Unspecified	MX	Mixture
CL	Clay	NC	Not Coded
GR	Gravel	NR	Not reported
M	Mineral	O	Organic
MU	Mud	SA	Sand
		SI	Silt

Water Depth Unit

Code	Definition	Code	Definition
NR	Not reported	in	Inches
cm	Centimeters	m	Meters
ft	Feet	mm	Millimeters

Geographic Code

Code	Definition	Code	Definition
--	Unspecified	NO	Norway
AR	Argentina	NR	Not Reported
AS	Australia	NU	Nicaragua
AS02	New South Wales	NZ	New Zealand
AS04	Queensland	PE	Peru
AS05	South Australia	PK	Pakistan
AS06	Tasmania	PL	Poland
AS07	Victoria	PL25	Bielsko
AU	Austria	PL35	Katowice
BA	Baharain	PM	Panama
BB	Barbados	PO	Portugal
BC	Botswana	PP	Papua New Guinea
BD07	Saint George's	RO	Romania
BE	Belgium	RO09	Brasov
BG	Bangladesh	RP	Philippines
BH	Belize	RP33	Laguna
BH01	Belize (District)	RP37	Leyte
BK	Bosnia and Herzegovina	RQ	Puerto Rico
BN	Benin	RS	Russia
BR	Brazil	RW	Rwanda
BR15	Minas Gerais	SF	South Africa
BR27	Sao Paulo	SG	Senegal
BT	Bhutan	SI	Slovenia
BU	Bulgaria	SO	Somalia
BX	Brunei	SP	Spain
CA	Canada	SP58	Galicia
CA01	Alberta	SR	Serbia
CA02	British Columbia	ST	St. Lucia

Code	Definition	Code	Definition
CA03	Manitoba	SU	Sudan
CA04	New Brunswick	SW	Sweden
CA05	Newfoundland	SY	Syria
CA07	Nova Scotia	SZ	Switzerland
CA08	Ontario	SZ25	Zurich
CA09	Prince Edward Island	TD	Trinidad and Tobago
CA10	Quebec	TH	Thailand
CA11	Saskatchewan	TH20	Sakon Nakhon
CB11	Phnum Penh	TH58	Chumphon
CE	Sri Lanka	TO	Togo
CH	China	TS	Tunisia
CH04	Jiangsu	TU	Turkey
CH08	Heilongjiang	TW	Taiwan
CH24	Shanxi	TZ	Tanzania
CH31	Hainan	TZ18	Tanga
CI	Chile	UG	Uganda
CM	Cameroon	UK	United Kingdom
CO	Colombia	UK03	Berkshire
CS	Costa Rica	UK08	Cornwall
CY	Cyprus	UK12	Dorset
DA	Denmark	UK19	Hampshire
EG	Egypt	UK24	Kent
EI	Ireland	UK29	Norfolk
ET	Ethiopia	UK30	North Yorkshire
EZ	Czech Republic	UK34	Oxford
FI	Finland	UK35	Shropshire
FR	France	UK36	Somerset
FRA9	Languedoc-Roussillon	UK39	Suffolk
GH	Ghana	UK85	Orkney
GM	Germany	UP	Ukraine

Code	Definition	Code	Definition
GM03	Bremen	US	United States
GM06	Niedersachsen	US01	Alabama
GQ	Guam	US02	Alaska
GR	Greece	US04	Arizona
GT	Guatemala	US05	Arkansas
HO	Honduras	US06	California
HR	Croatia	US08	Colorado
HU	Hungary	US09	Conneticut
ID	Indonesia	US10	Delaware
ID06	Jawa Barat	US11	District of Columbia
IM	Man, Isle of	US12	Florida
IN	India	US13	Georgia
IN02	Andhra Pradesh	US15	Hawaii
IN03	Assam	US16	Idaho
IN07	Dehli	US17	Illinois
IN09	Gujarat	US18	Indiana
IN10	Haryana	US19	Iowa
IN12	Jammu and Kashmir	US20	Kansas
IN15	Madhya Pradesh	US21	Kentucky
IN16	Maharashtra	US22	Louisiana
IN19	Karnataka	US23	Maine
IN23	Punjab	US24	Maryland
IN24	Rajasthan	US25	Massachusetts
IN26	Tripura	US26	Michigan
IN27	Uttar Pradesh	US27	Minnesota
IN28	West Bengal	US28	Mississippi
IR	Iran	US29	Missouri
IS	Israel	US30	Montana
IT	Italy	US31	Nebraska
IT15	Sicilia	US32	Nevada

Code	Definition	Code	Definition
IV	Cote D'Ivoire	US33	New Hampshire
IV39	Bouafle	US34	New Jersey
IZ	Iraq	US35	New Mexico
JA	Japan	US36	New York
JA14	Ibaraki	US37	North Carolina
JO	Jordan	US38	North Dakota
KE	Kenya	US39	Ohio
KS	Korea, Republic of	US40	Oklahoma
KT	Christmas Island	US41	Oregon
LA02	Champasak	US42	Pennsylvania
LA04	Khammouan	US44	Rhode Island
LE04	Beirut	US45	South Carolina
LH	Lithuania	US46	South Dakota
LO	Slovakia	US47	Tennessee
MA	Madagascar	US48	Texas
MB	Martinique	US49	Utah
MG	Mongolia	US50	Vermont
MK	Macedonia	US51	Virginia
MO	Morocco	US53	Washington
MX	Mexico	US54	West Virginia
MX05	Chiapas	US55	Wisconsin
MX24	San Luis Potosi	US56	Wyoming
MX28	Tamaulipas	UV	Burkina
MY	Malaysia	UY	Uruguay
MZ10	Manica	VM	Vietnam
NC	Not Coded	VM56	Can Tho
NG	Niger	VQ	Virgin Islands
NI	Nigeria	WZ	Swaziland
NL	Netherlands	ZI	Zimbabwe

Application Type

Code	Definition	Code	Definition
--	Unspecified	HS	Hand spray
AE	Aerial (unknown type)	IP	Intraperitoneal
AG	Aerial granular	IS	In Situ
AS	Aerial spray	MU	Multiple
DA	Direct application	NC	Not Coded
DW	Drop wise application	NR	Not Reported
EN	Environmental, unspecified	PT	Painted
FD	Chemical incorporated into food	PU	Pump
GG	Ground granular	RB	Imbedded in rubber
GS	Ground spray	SP	Spray (unknown type)
		SS	Soil slurry

Application Rate

Code	Definition	Code	Definition
%	percent	mW	milliwatts
% INHIB	percent inhibition	maturity index	maturity index
% * g	percent multiplied by weight in grams	meq	milliequivalents
% AE	percent acid equivalent	meq/100g	milliequivalents per 100 grams
% CEC	percent of soil cation exchange capacity	meq/100g soil	milliequivalents per 100 grams soil
% CNTL RI	percent of control Ratcliff Index	meq/L	milliequivalents per liter
% DT	percent of digestive tract	meq/eu	milliequivalents per experimental unit
% FATL	percent of total fatty acids	meq/g	milliequivalents per gram
% PC	percent of positive control	meq/kg	milliequivalents per kilogram

Code	Definition	Code	Definition
% PLIPD	percent of total phospholipid	metric t/ha	metric tons per hectare
% PRTL	percent of total protein	mg	milligrams
% RI	percent Ratcliff Index	mg %	milligrams percent
% S/ppm Zn	percent sulfur per parts per million zinc	mg C/g OM	milligrams carbon per gram organic matter
% TIME	percent of time	mg C2H4/eu/d	milligrams of ethylene produced per experimental unit per day
% WSF	percent water soluble fraction	mg C2H4/eu/h	milligrams of ethylene produced per experimental unit per hour
% act	percent activity	mg CO2/100g soil	milligrams carbon dioxide per 100 grams of soil
% arb	percent arbuscularity	mg CO2/dm2/h	milligrams carbon dioxide per square decameter per hour
% ash	percent ash	mg CO2/h/g	milligrams carbon dioxide per hour per gram
% cell volume	percent cell volume	mg CO2/m2/sec	milligrams carbon dioxide per square meter per second
% change	percent change	mg H2O/d*cm2*T	milligrams water per day*square centimeters*Torr
% clitellate	percent clitellate	mg N/100 ml	milligrams nitrogen per 100 milliliter
% corn	percent corn pollen	mg NH3/g org	milligrams ammonia per gram organism
% cortex	percent of cortex	mg NH3/g org/h	milligrams ammonia per gram of organism per day
% dev CNTL	percent deviation from control	mg O2/g org	milligrams oxygen per gram organism
% dose ret	percent dose retained	mg O2/g org/h	milligrams oxygen per gram of organism per day

Code	Definition	Code	Definition
% dose/g TI	percent of dose per gram of tissue	mg P/100 g	milligrams phosphorus per 100 grams
% dose/h	percent dose per hour	mg P/h/g TI	milligrams phosphorus per hour per gram tissue
% dry wght	percent of dry weight	mg TI/g bdwt	milligrams tissue per gram body weight
% earliness	percent earliness	mg TI/kg bdwt	milligrams tissue per kilogram body weight
% fertile	percent fertile	mg co2/hr/g ndl	milligrams carbon dioxide per hour per gram of needles
% g	percent grams	mg h/L	milligrams hours per liter
% g/g	percent gram per gram	mg pro/g	milligrams protein per gram
% g/g bdwt	percent gram per gram body weight	mg pro/mi	milligrams protein per minute
% ingested	percent of ingested	mg urea/g org	milligrams urea per gram organism
% intake	percent of intake	mg urea/g org/h	milligrams urea per gram of organism per day
% lit	percent of litter	mg%	milligram %
% mg	percent milligrams	mg/%	milligrams per percent
% mg/g bdwt	percent milligrams per gram body weight	mg/0.5 cm3	milligrams per 0.5 cubic centimeters
% of CNTL	percent of control value	mg/10 L	milligrams per 10 liters
% of bdwt	percent of body weight	mg/10 g food	milligrams per 10 grams food
% of diet	percent of diet	mg/10 ml	milligrams per 10 milliliters
% of initial	percent of initial value	mg/100 L	milligrams per 100 liters
% of max yld	percent of maximum yield	mg/100 kg org	milligrams per 100 kilograms of organism
% of total	percent of total value	mg/100 lbs	milligrams per 100 pounds

Code	Definition	Code	Definition
% org	percent of organisms	mg/100 mg TI	milligrams per 100 milligrams tissue
% prod	percent production [(# eggs/# hen days)*100]	mg/100g	milligrams per 100 grams
% sat	percent saturation	mg/100g bw	milligrams per 100 grams body weight
% soil	percent soil	mg/100g bw/d	milligrams per 100 grams body weight/day
% soln	percent solution	mg/100g food	milligrams per 100 grams food
% sperm	percent sperm	mg/100g org	milligrams per 100 grams organism
% tolerance	percent tolerance	mg/100g sd	milligrams per 100 grams seed
% total dose	percent total dose	mg/100g soil	milligrams per 100 grams soil
% total oil	percent of total oil content	mg/100g/d	milligrams per 100 grams per day
% v/v	percent volume per volume	mg/100kg bdwt	milligrams per 100 kilograms body weight
% v/w	percent volume per weight	mg/100lb/d	milligrams per 100 pounds per day
% vol	percent volume	mg/100ml	milligrams per 100 milliliters
% w/v	percent weight per volume	mg/100ml diet	milligrams per 100 milliliters diet
% w/w	percent weight per weight	mg/100ul	milligrams per 100 microliters
% wet wght	percent wet weight	mg/10g	milligrams per 10 grams
% wght	percent of weight	mg/10g bdwt	milligrams per 10 grams body weight
% wght/org	percent weight per organism	mg/10g org	milligrams per 10 grams organism
%/d	percent per day	mg/12 h	milligrams per 12 hours

Code	Definition	Code	Definition
%/g	percent per gram	mg/15 cm3	milligrams per 15 cubic centimeters
%/g TI	percent per gram tissue	mg/15 g fd	milligrams per 15 grams food
%/min	percent per minute	mg/150ml	milligrams per 150 milliliters
%/ml	percent per milliliter	mg/2.5 cm dia	milligrams per 2.5 centimeter diameter
%/org/d	percent per organism per day	mg/20 cm3	milligrams per 20 cubic centimeters
%/wk	percent per week	mg/200 ml	milligrams per 200 milliliters
%FM	percent female	mg/24 h	milligrams per 24 hours
%ML	percent male	mg/24 h/kg	milligrams per 24 hours per kilogram
%NaCl	percent sodium chloride	mg/250 ml	milligrams per 250 milliliters
%RBC	percent red blood cells	mg/250g bdwt	milligrams per 250 grams body weight
%succ br/fm	percent successful broods per female	mg/3 L soil	milligrams per 3 liters soil
--	Unspecified	mg/3 kg	milligrams per 3 kilograms
0/00	parts per thousand	mg/3 kg soil	milligrams per 3 kilograms soil
10x6/ul	10x6 microliters	mg/3 ml	milligrams per 3 milliliters
1e+1 kg	1 X 10 +1 kilograms	mg/300 g	milligrams per 300 grams
1e+1 ug/g	1 X 10 +1 micrograms per gram	mg/454g	milligrams per 454 grams
1e+12 no/L	1 X 10 +12 number/l	mg/454g fd	milligrams per 454 grams food
1e+12/l	1 X 10 +12/liter	mg/50 cm2	milligrams per 50 centimeters squared
1e+2 cal/g	1 X 10 +2 calories per gram	mg/500 g soil	milligrams per 500 grams soil

Code	Definition	Code	Definition
1e+2 mm	1 X 10 +2 millimeters	mg/500 ml	milligrams per 500 milliliters
1e+2 no/mm2	1 X 10 +2 per square millimeter	mg/60 ml	milligrams per 60 milliliters
1e+2 no/mm3	1 X 10 +2 per cubic millimeter	mg/70g	milligrams per 70 grams
1e+2 ug/g	1 X 10 +2 micrograms per gram	mg/L	miligram per liter
1e+3 RA	1 X 10 +3 ratio	mg/L 10 mi	milligrams per liter 10 minutes
1e+3 cell/mg TI	1 X 10 +3 cells per milligram tissue	mg/L media	milligrams per liter media
1e+3 cells	1 X 10 +3 cells	mg/L/d	milligrams per liter per day
1e+3 cells/mm3	1 X 10 +3 cells per cubic millimeter	mg/L/h	milligrams per liter per hour
1e+3 cells/ul	1 X 10 +3 cells per microliter	mg/TI	milligrams per tissue
1e+3 cm	1 X 10 +3 number per centimeter	mg/bee	milligrams per bee
1e+3 cm/d	1 X 10 +3 centimeters per day	mg/cc	milligrams per coccoon
1e+3 counts	1 X 10 +3 counts	mg/cm	milligrams per centimeter
1e+3 cpm	1 X 10 +3 counts per minute	mg/cm2	milligrams per square centimeter
1e+3 dpm/TI	1 X 10 +3 disintegrations per minute per tissue	mg/cm2*Torr	milligrams per square centimeters*Torr
1e+3 dpm/g org	1 X 10 +3 disintegrations per minute per gram of organism	mg/cm2/d	milligrams per square centimeter per day
1e+3 dpm/ml	1 X 10 +3 disintegrations per minute per milliliter	mg/cm3	milligrams per cubic centimeter
1e+3 dpm/org	1 X 10 +3/disintegrations per minute per organism	mg/cntr	milligrams per container

Code	Definition	Code	Definition
1e+3 ng	1 X 10 +3 nanograms	mg/d	milligrams per day
1e+3 ng/g	1 X 10 +3 nanograms per gram	mg/d/100 lbs	milligrams per day per 100 pounds
1e+3 no	1 X 10 +3 number	mg/d/100 mg org	milligrams per day per 100 grams organisms
1e+3 no/cm	1 X 10 +3 number per centimeter	mg/d/bdwt	milligrams per day per body weight
1e+3 no/cm3	1 X 10 +3 number per cubic centimeter	mg/d/wght	milligrams per day per weight
1e+3 no/g TI	1 X 10 +3 number per gram tissue	mg/dl	milligrams per deciliter
1e+3 no/mg SP	1 X 10 +3 number per milligram spleen	mg/dm2/h	milligrams per square decimeter per hour
1e+3 no/ul	1 X 10 +3 no/microliter	mg/dm3	milligrams per cubed decimeter
1e+3 org/acre	1 X 10+3 organisms per acre	mg/dose	milligrams per dose
1e+3 sigma u/g	1 X 10+3 sigma units per gram	mg/egg	milligrams per egg
1e+3 um2	1 X 10 +3 square micrometers	mg/eu	milligrams per experimental unit
1e+3/ml	1 X 10 +3/milliliter	mg/fish	milligrams per fish
1e+3/mm3	1 X 10 +3/cubic millimeter	mg/ft2	milligrams per square foot
1e+3/ul	1 X 10 +3/microliter	mg/ft3	milligrams per cubic foot
1e+3RNA/TCA/DNA	1 X 10 +3 (counts per minute RNA per milligram TCA) per milligra	mg/g	milligrams per gram
1e+3dpm/mg DNA	1 x 10+3 disintegrations per minute per milligram DNA	mg/g CRTN	milligrams per gram creatinine
1e+3dpm/mg RNA	1 x 10+3 disintegrations per minute per milligram RNA	mg/g MIT	micrograms per gram mitochondria

Code	Definition	Code	Definition
1e+4 IU/Tl	1 X 10 +4 International units per tissue	mg/g N	milligrams per gram nitrogen
1e+4 IU/g	1 X 10 +4 International units per gram	mg/g Tl	milligrams per gram tissue
1e+4 no/mg Tl	1 X 10 +4 number per gram tissue	mg/g Tl/h	milligrams per gram tissue per hour
1e+4 no/ml	1 X 10 +4 number per milliliter	mg/g ash	milligrams per gram ash
1e+4 no/mm2	1 X 10 +4 per square millimeter	mg/g bdwt	milligrams per gram body weight
1e+4 no/mm3	1 X 10 +4 per cubic millimeter	mg/g bdwt/d	milligrams per gram body weight per day
1e+4 ug/Tl	1 X 10+4 micrograms per tissue	mg/g clay	milligram per gram clay
1e+4 ug/g	1 X 10+4 micrograms per gram	mg/g dry wt	milligrams per gram dry weight
1e+4/mm	1 x 10+4 per millimeter	mg/g fd	milligrams per gram food
1e+4/mm3	1 x 10+4 per cubic millimeter	mg/g fluid	milligram per gram fluid
1e+5 no	1 X 10 +5 number	mg/g humus	milligrams per gram humus
1e+5 no/g Tl	1 X 10 +5 number per gram tissue	mg/g in solvent	milligrams per gram in solvent
1e+6 cells	1 X 10 +6 cells	mg/g org	milligrams per gram of organism
1e+6 cells/mm3	1 X 10 +6 cells per cubic millimeter	mg/g pod	milligrams per gram of pod
1e+6 cm	1 X 10 +6 centimeters	mg/g pro	milligrams per gram protein
1e+6 cpm	1 X 10 +6 counts per minute	mg/g soil	milligrams per gram soil
1e+6 cpm/g Tl	1 X 10 +6 counts per minute per gram tissue	mg/g/d	milligrams per gram per day
1e+6 mm3	1 X 10 +6 per cubic millimeter	mg/gal	milligrams per gallon
1e+6 no	1 X 10 +6 number	mg/gland/g bdwt	milligrams per gland per gram body weight

Code	Definition	Code	Definition
1e+6 no/cm3	1 X 10 +6 number per cubic centimeter	mg/h	milligrams per hour
1e+6 no/g TI	1 X 10 +6 number per gram tissue	mg/h/g bdwt	milligrams per hour per gram body weight
1e+6 no/mg TI	1 X 10 +6 number per milligram tissue	mg/ha	milligrams per hectare
1e+6 no/ml	1 X 10 +6 number per milliliter	mg/in2/d	milligrams per square inch per day
1e+6 no/mm3	1 X 10 +6 number per cubic millimeter	mg/jv	milligrams per juvenile
1e+6 no/org	1 X 10+6 number per organism	mg/kg	milligrams per kilogram
1e+6 no/ul	1 X 10 +6 number per microliter	mg/kg TI	milligrams per kilogram tissue
1e+6/cm3	1 X 10 +6/cubic centimeter	mg/kg bdwt	milligrams per kilogram body weight
1e+6/ml	1 X 10 +6/milliliter	mg/kg bdwt/d	milligrams per kilogram body weight per day
1e+6/mm3	1 X 10 +6/cubic millimeter	mg/kg bdwt/wk	milligrams per kilogram body weight per week
1e+6/ul	1 X 10 +6/microliter	mg/kg diet	milligrams per kilogram diet
1e+6no/g	1 X 10 +6 number per gram	mg/kg dry fd	milligrams per kilogram dry food
1e+7 cells	1 X 10+7 cells	mg/kg dry soil	milligrams per kilogram dry soil
1e+7/ml sperm	1 X 10+7 cells per milliliter sperm	mg/kg dry wt	milligram per kilogram dry weight
1e+8 no	1 X 10 +8 number	mg/kg dw org/d	milligrams per kilogram dry weight organism per day
1e+8/mm3	1 X 10 +8 per cubic millimeter	mg/kg egg	milligrams per kilograms egg
1e+9 no	1 X 10 +9 number	mg/kg fd	milligrams per kilogram food
1e+9 no/l	1 X 10 +9 number per liter	mg/kg humus	milligrams per kilogram humus

Code	Definition	Code	Definition
1e+9 no/ml	1 X 10 +9 number per milliliter	mg/kg litter	milligrams per kilogram litter
1e-1 mg	1 X 10 -1 milligrams	mg/kg media	milligrams per kilogram media
1e-1 mg/mg/d	1 X 10 -1 milligrams per milligrams per day	mg/kg org	milligrams per kilogram organism
1e-1 ug	1 X 10 -1 micrograms	mg/kg org/d	milligrams per kilogram organism per day
1e-2 J/beat/kg	1 x 10 -2 Joules per beat per kilogram	mg/kg p/d	milligrams per kilograms parent per day
1e-2 Nm	1 X 10-2 nanometers	mg/kg seed	milligrams per kilogram seed
1e-2 g/l	1 X 10 -2 grams per liter	mg/kg soil	milligrams per kilogram soil
1e-2 mM	1 X 10 -2 millimolar	mg/kg wet fd	milligrams per kilogram wet food
1e-2 mg	1 X 10 -2 milligrams	mg/kg wet wt	milligrams per kilogram wet weight
1e-2 mm	1 X 10 -2 millimeters	mg/kg wet wt media	milligrams per kilogram wet weight media
1e-2 no/ul	1 X 10 -2 number per microliter	mg/kg wt	milligrams per kilogram weight
1e-2 ug/g	1 X 10 -2 micrograms per gram	mg/kg wt/d	milligrams per kilogram weight per day
1e-2 umol Hg/g	1 X 10 -2 micromoles hemaglobin bound per g tissue	mg/kg/C	milligrams per kilograms per degree celcius
1e-2 umol/g TI	1 X 10 -2 micromols per gram tissue	mg/kg/L	milligrams per kilogram per liter
1e-3 RA	1 X 10 -3 ratio	mg/kg/d	milligrams per kilogram per day
1e-3 cm/d	1 X 10 -3 centimeters per day	mg/kg/fish	milligrams per kilogram per fish
1e-3 cpm	1 X 10 -3 counts per minute	mg/kg/h	milligrams per kilograms per hour

Code	Definition	Code	Definition
1e-3 g/l	1 X 10-3 grams per liter	mg/kg/min	milligrams per kilogram per minute
1e-3 g/ml	1 X 10 -3 grams per milliliter	mg/kg/org	milligrams per kilogram per organism
1e-3 mg	1 X 10 -3 milligrams	mg/kg/wk	milligrams per kilogram per week
1e-3 mg/mg/d	1 X 10 -3 milligrams per milligrams per day	mg/lb	milligrams per pound
1e-3*dyn*s*cm-5	1 X 10 -3 X dynes X seconds per centimeters to the fifth power	mg/m2	milligrams per square meter
1e-4 g/l	1 X 10 -4 grams per liter	mg/m3	milligrams per cubic meter
1e-4 g/ml	1 X 10 -4 grams per milliliter	mg/mg	milligrams per milligrams
1e-4 in	1 X 10 -4 inches	mg/mg CREA	milligrams per milligrams creatinine
1e-4 mM	1 X 10 -4 millimolar	mg/mg node	milligrams per milligram nodules
1e-4 mg	1 X 10 -4 milligrams	mg/mi	milligrams per minute
1e-4 mg/cm3	1 X 10 -4 milligrams per cubic centimeter	mg/ml	milligrams per milliliter
1e-4 no	1 X 10 -4 number	mg/ml fd	milligrams per milliliter food
1e-4 uM	1 X 10 -4 micromolar	mg/ml/g wt	milligrams per milliliter per gram weight
1e-4/0.5ml	1 X 10 -4 milligrams per 0.5 milliliters	mg/mm2	milligrams per square milliliter
1e-4dpm/g	1 x 10-4 disintegrations per minute per gram	mg/org	milligrams per organism
1e-4dpm/mg Pi	1 x 10-4 disintegrations per minute per milligram Pi	mg/org/d	milligrams per organism per day
1e-5 g/l	1 X 10 -5 grams per milliliter	mg/org/wk	milligrams per organism per week
1e-5 mM	1 X 10 -5 millimolar	mg/orwt	milligrams per organ weight

Code	Definition	Code	Definition
1e-5 mg	1 X 10 -5 milligrams	mg/quintal	miligrams per quintal
1e-5 mg/10 ml	1 X 10 -5 milligrams per 10 milliliters	mg/sd	milligrams per seed
1e-5/mm3	1 X 10 -5/cubic millimeter	mg/tuber	milligrams per tuber
1e-6 g/l	1 X 10 -6 grams per liter	mg/vol	milligrams per volume
1e-6 mol/mi/gTI	1 X 10 -6 moles per minute per gram tissue	mg/wk	milligrams per week
1e-7 mg/10 ml	1 X 10 -7 milligrams per 10 milliliter	mg1/3	milligrams to the 1/3 power
1e-9/l	1 X 10 -9/liter	mgdryfd/gwetbdwt/d	milligrams dry food per gram wet body weight per day
1mg/10ml	1 milligram per 10 milliliters	mgdryfd/mgwetbdwt/d	milligrams dry food per milligram wet body weight per day
25 mg/40l	25 milligrams per 40 liters	mi	minute
AE	Acid equivalent	mi/12 h	minutes per 12 hours
AI	active ingredient	mi/d	minutes per day
AI %	Active Ingredient percent	mi/nmol Rh	minutes per nanomoles rhodopsin
AI % fd	active ingredient percent food	mi/org	minutes per organism
AI % v/v	active ingredient percent volume per volume	micronaires	micronaires
AI % w/v	active ingredient percent weight per volume	microns	microns
AI % w/w	active ingredient percent weight per weight	ml	milliliters
AI %/100 kg sd	active ingredient percent per 100 kilograms seed	ml CO2/mi	milliliters CO2 per minute
AI %/786 L	active ingredient percent per 786 liters	ml O2	milliliters O2

Code	Definition	Code	Definition
AI %/L	active ingredient percent per L	ml O2/mg TI	milliliters O2 per milligram tissue
AI %/ha	active ingredient percent per hectare	ml/10 L	milliliter per 10 liters
AI %/wt sd	Active ingredient percent per weight seed	ml/10 L/100 m2	milliliters per 10 liters per 100 square meters
AI 0/00	active ingredient parts per thousand	ml/10.2 L	milliliters per 10.2 liters
AI L/42.1 L/ha	active ingredient liters per 42.1 liters per hectare	ml/100 L	milliliters per 100 liters
AI L/eu	active ingredient liters per experimental unit	ml/100 g bdwt	milliliter per 100 grams body weight
AI L/feddan	active ingredient liters per feddan	ml/100 gal	milliliters per 100 gallons
AI L/ha	active ingredient liters per hectare	ml/100 kg sd	milliliters per 100 kilograms seed
AI M	active ingredient molar	ml/100 lb sd	milliliters per 100 pounds seed
AI cm3/eu	active ingredient cubic centimeters per experimental unit	ml/100 m2	milliliters per 100 square meters
AI fl oz/acre	active ingredient fluid ounces per acre	ml/1000 L	milliliters per 1000 liters
AI g	active ingredient grams	ml/1000 ft	milliliters per 1000 foot
AI g/0.405 ha	active ingredient grams per 0.405 hectare	ml/1000 org	milliliters per 1000 organisms
AI g/10 L	active ingredient grams per 10 liters	ml/100g	milliliters per 100 grams
AI g/10 acres	active ingredient grams per 10 acres	ml/100g bdwt/d	milliliter per 100 grams body weight per day
AI g/10 m	active ingredient grams per 10 meter	ml/100g sd	milliliters per 100 grams seed
AI g/100 L	active ingredient grams per 100 liters	ml/100ml	milliliters per 100 milliliters
AI g/100 g sd	active ingredient grams per 100 grams of seed	ml/15.1 L	milliliters per 15.1 liters

Code	Definition	Code	Definition
AI g/100 gal	active ingredient grams per 100 gallons	ml/16 h	milliliters per 16 hours
AI g/100 kg	active ingredient grams per 100 kilograms	ml/189.25 L	milliliters per 189.25 liters
AI g/100 kg sd	Active ingredient gram per 100 kilograms seed	ml/2.5 cm eu	milliliters per 2.5 centimeters experimental unit
AI g/100 m	active ingredient grams per 100 meters	ml/2.54 cm tkdi	milliliters per 2.54 cm trunk diameter
AI g/1000 L	active ingredient grams per 1000 liters	ml/20 L	milliliters per 20 liters
AI g/100000 sd	active ingredient grams per 100000 seed	ml/2000 L	milliliters per 2000 liters
AI g/100m2	active ingredient grams per 100 square meters	ml/24 h	milliliters per 24 hours
AI g/10kg sd	Active ingredient gram per 10 kilograms seed	ml/25 L	milliliters per 25 liters
AI g/1100 L	active ingredient grams per 1100 liters	ml/25 ft	milliliters per 25 feet
AI g/2 L/ha	active ingredient grams per 2 liter per hectare	ml/25 ml	milliliters per 25 milliliters
AI g/2.5 cm dbh	Active ingredient grams per 2.5 centimeter of diameter at breast height	ml/250 ml	milliliters per 250 milliliters
AI g/2.54 cm dbh	active ingredient grams per 2.54 centimeter of diameter at breast height	ml/3.79 L	milliliters per 3.79 liters
AI g/2.54 cm tkdi	active ingredient grams per 2.54 centimeters trunk diameter	ml/3.8 L	milliliters per 3.8 liters
AI g/200 L	active ingredient grams per 200 liters	ml/300 g bdwt	milliliters per 300 grams body weight
AI g/2000 cm3 soil	active ingredient grams per 2000 cubic centimeters soil	ml/45 mi	milliliters per 45 minutes
AI g/25 ml/m	active ingredient grams per 25 milliliters per meter	ml/50 kg seed	milliliters per 50 kilograms seed

Code	Definition	Code	Definition
AI g/3 ml/m	active ingredient grams per 3 milliliters per meter	ml/500 ml	milliliters per 500 milliliters
AI g/30.5 cm ht	Active ingredient grams per 30.5 centimeters plant height	ml/70d	milliliters per 70 days
AI g/300 L	active ingredient grams per 300 liters	ml/8 L	milliliters per 8 liters
AI g/304.8 m	active ingredient grams per 304.8 meters	ml/8.5 L	milliliters per 8.5 liters
AI g/305 m	active ingredient grams per 305 meters	ml/92.9 m2	milliliters per 92.9 square meters
AI g/378 L	active ingredient grams per 378 liters	ml/929 cm2	milliliters per 929 square centimeters
AI g/378.5 L	active ingredient grams per 378.5 liters	ml/946 ml	milliliters per 946 milliliters
AI g/379 L	active ingredient grams per 379 liters	ml/L	milliliters per liter
AI g/400 m2	active ingredient grams per 400 square meters	ml/L/1000 ft2	milliliters per liter per 1000 square foot
AI g/454.6 L/0.4 ha	active ingredient grams per 454.6 liters per 0.4 hectares	ml/L/org	milliliters per liter per organism
AI g/500 g	active ingredient grams per 500 grams	ml/acre	milliliters per acre
AI g/500g soil	active ingredient grams per 500 grams soil	ml/body wt	milliliter per body weight
AI g/6 L	active ingredient grams per 6 liters	ml/cm circ	milliliters per centimeter circumference
AI g/60000 sd	active ingredient grams per 60000 seeds	ml/cntr	milliliters per container
AI g/93 m2	active ingredient grams per 93 square meters	ml/d	milliliters per day
AI g/L soil	active ingredient grams per liter soil	ml/d/100g BW	milliliters per day per 100 grams body weight
AI g/acre	active ingredient grams per acre	ml/d/kg BW	milliliters per day per kilogram body weight

Code	Definition	Code	Definition
AI g/bushel	active ingredient grams per bushel	ml/d/org	milliliters per day per organism
AI g/cm	active ingredient grams per centimeter	ml/dm2	milliliters per square decimeter
AI g/cm caliper	active ingredient grams per centimeter caliper	ml/eu	milliters per experimental unit
AI g/cm of dbh	active ingredient grams per centimeter of diameter breast height	ml/eu/d	milliliters per experimental unit per day
AI g/cm2	active ingredient grams per square centimeter	ml/ft	milliliters per foot
AI g/dm3	active ingredient grams per cubic decimeter	ml/ft3	milliliter per cubic foot
AI g/dn(Cyprus)	Active Ingredient grams per dunam, dunum or donum (Cyprus1338m2)	ml/g	milliliters per gram
AI g/dn(Iraq)	Active Ingredient grams per dunam, dunum or donum (Iraq 2500m2)	ml/g bdwt	milliliters per gram body weight
AI g/dn(Std)	Active Ingredient grams per dunam, dunum or donum (Std 1000m2)	ml/g food	milliliters per gram food
AI g/eu	active ingredient grams per experimental unit	ml/g soil	milliliters per gram soil
AI g/feddan	active ingredient grams per feddan	ml/g/h	milliliters per gram per hour
AI g/ft org	active ingredient grams per foot of organism	ml/gal	milliliters per gallon
AI g/ha	active ingredient grams per hectare	ml/h	milliliters per hour
AI g/hl	active ingredient grams per hectoliter	ml/h/g bdwt	milliliters per hour per gram body weight
AI g/in dia	active ingredient grams per inch diameter	ml/ha	milliliters per hectare
AI g/kg	active ingredient grams per kilogram	ml/hl	milliliter per hectoliter

Code	Definition	Code	Definition
AI g/kg bdwt	active ingredient grams per kilogram body weight	ml/injection	milliliters per injection
AI g/kg food	active ingredient grams per kilogram food	ml/kg	milliliters per kilogram
AI g/kg plt	active ingredient grams per kilogram pellet	ml/kg bdwt	milliliters per kilogram body weight
AI g/kg soil	active ingredient grams per kilogram soil	ml/kg diet	milliliters per kilogram diet
AI g/m	active ingredient grams per meter	ml/kg dry seed	milliliters per kilogram dry seed
AI g/m2	active ingredient grams per sq m	ml/kg org/d	milliliters per kilogram organism per day
AI g/m2 canopy	active ingredient grams per square meter canopy	ml/kg sd	milliliters per kilograms seed
AI g/m3	active ingredient grams per cubic meter	ml/kg soil	milliliters per kilogram soil
AI g/ml	active ingredient grams per milliliter	ml/kg/d	milliliters per kilogram per day
AI g/org	active ingredient grams per organism	ml/m	milliliters per meter
AI g/t	active ingredient grams per ton	ml/m2	milliliters per square meter
AI g/unit	active ingredient grams per unit	ml/m3	milliliters per cubic meter
AI gal/100gal/acre	active ingredient gallons per 100 gallons per acre	ml/mi	milliliter per minute
AI gal/acre	active ingredient gallons per acre	ml/mi/100g	milliliters per minute per 100 grams
AI kg	active ingredient kilograms	ml/mi/kg	milliliters per minute per kilogram
AI kg /0.4 ha	active ingredient kilograms per 0.4 hectares	ml/org	milliliters per organism
AI kg/100 L	active ingredient kilograms per 100 liters	ml/org/d	milliliters per organism per day

Code	Definition	Code	Definition
AI kg/100 kg sd	active ingredient kilograms per 100 kilograms seed	ml/plot	milliliters per plot
AI kg/1000 m	active ingredient kilograms per 1000 meters	ml/quintal	milliliters per quintal
AI kg/1122 L/ha	active ingredient kilograms per 1122 liters per hectare	ml/s	milliliters per second
AI kg/2338 L/ha	active ingredient kilograms per 2338 liters per hectare	ml/wk	milliliters per week
AI kg/3.74 L/ha	active ingredient kilograms per 3.74 liters per hectare	mlcl/actin mlcl	molecules per actin molecule
AI kg/3741 L/ha	active ingredient kilograms per 3741 liters per hectare	mm	millimeters
AI kg/378 L	active ingredient kilograms per 378 liters	mm X 100	millimetes X 100
AI kg/378.5 L	active ingredient kilograms per 378.5 liters	mm/d	millimeters per day
AI kg/L	active ingredient kilograms per liter	mm/h	millimeters per hour
AI kg/acre	active ingredient kilograms per acre	mm/org	millimeters per organism
AI kg/eu	active ingredient kilograms per experimental unit	mm/ug pro	millimeters per microgram protein
AI kg/feddan	active ingredient kilograms per feddan, or faddan (1 feddan = 1.038 acres)	mm2	square millimeters
AI kg/ha	active ingredient kilograms per hectare	mm2/mm3 * 1e-9	square millimeters per cubic millimeter X 1 X 10 -9
AI kg/ha soil	active ingredient kilograms per hectare soil	mm2/org/d	square millimeters per organism per day

Code	Definition	Code	Definition
AI lb/10 gal	active ingredient pounds per 10 gallons	mm3	cubic millimeters
AI lb/100 ft2	active ingredient pounds per 100 square feet	mm3/100g dry soil	cubic millimeters per 100 grams dry soil
AI lb/100 gal	active ingredient pounds per 100 gallons	mm3/L	cubic millimeter per liter
AI lb/100gal/acre	active ingredient pounds per 100 gallons per acre	mm3/dm3	cubic millimeters per cubic decimeter
AI lb/11 gal/acre	Active Ingredient pounds per 11 gallons per acre	mm3/l	cubic millimeters per liter
AI lb/acre	active ingredient pounds per acre	mm3/mg/h	cubic millimeters per milligram per hour
AI lb/cwt sd	active ingredient pounds per hundred weight seed	mm3/mm3	cubic millimeters per cubic millimeter
AI lb/eu	active ingredient pounds per experimental unit	mmHg	millimeters mercury
AI lb/ga	active ingredient pounds per gallon	mmHg/beat/mi*-3	millimeters mercury per beat per minute * 1 X 10-3
AI lb/gal/acre	active ingredient pounds per gallon per acre	mmHg/s	millimeters mercury/second
AI mL/eu	active ingredient milliliter per experimental unit	mmg	micromilligrams
AI mM	active ingredient milliMolar	mmol	millimoles
AI mg	active ingredient milligrams	mmol H2O/m2/s	millimoles water per square meter per second
AI mg/0.1 m2	active ingredient milligrams per 0.1 square meters	mmol NO2/kg	millimoles nitrogen dioxide per kilogram
AI mg/100 cm3	active ingredient milligrams per 100 cubic centimeters	mmol/ g food	millimoles per gram food

Code	Definition	Code	Definition
AI mg/100 kg	active ingredient milligrams per 100 kilograms	mmol/100 g	millimoles per 100 grams
AI mg/1800 g	active ingredient milligrams per 1800 grams	mmol/100 g bdwt	millimoles per 100 grams body weight
AI mg/2 L fd	active ingredient milligrams per 2 liters food	mmol/L	millimoles per liter
AI mg/300 ml	active ingredient milligrams per 300 millilters	mmol/L soil	millimoles per liter soil
AI mg/4.41 m2	active ingredient milligrams per 4.41 square meters	mmol/d	millimoles per day
AI mg/L	active ingredient milligram per Liter	mmol/dm3	millimoles per cubic decimeter
AI mg/L fd	active ingredient milligrams per liter food	mmol/g	millimoles per gram
AI mg/cm2	active ingredient milligrams per square centimeter	mmol/g dry wt	millimoles per gram dry weight
AI mg/cm3	active ingredient milligrams per cubic centimeter	mmol/h/g TI	millimoles per hour per gram tissue
AI mg/d	active ingredient milligrams per day	mmol/kg	millimoles per kilogram
AI mg/eu	active ingredient milligrams per experimental unit	mmol/kg bdwt	millimoles per kilogram body weight
AI mg/g	active ingredient milligrams per gram	mmol/kg bdwt/d	millimoles per kilogram body weight per day
AI mg/g fd	active ingredient milligrams per gram food	mmol/kg dry bdwt/d	millimoles per kilogram dry body weight per day
AI mg/ha	active ingredient milligrams per hectare	mmol/kg dry fd/d	millimoles per kilogram dry food per day
AI mg/kg	active ingredient milligrams per kilogram	mmol/kg egg	millimoles per kilogram egg

Code	Definition	Code	Definition
AI mg/kg bdwt	active ingredient milligrams per kilogram body weight	mmol/kg fd	millimoles per kilogram fd
AI mg/kg bdwt EU	active ingredient milligrams per kilogram body weight of experimental unit	mmol/kg media	millimoles per kilogram media
AI mg/kg bdwt/d	active ingredient milligrams per kilograms body weight per day	mmol/kg soil	millimoles per kilogram soil
AI mg/kg dry soil	active ingredient milligrams per kilogram dry soil	mmol/kg/d	millimoles per kilogram per day
AI mg/kg fd	active ingredient milligrams per kilogram food	mmol/kg/h	millimoles per kilogram per hour
AI mg/kg soil	active ingredient milligrams per kilogram soil	mmol/m2	millimoles per square meter
AI mg/kg/d	active ingredient milligrams per kilogram per day	mmol/m2/s	millimoles per square meter per second
AI mg/m	Active ingredient milligrams per meter	mmol/m3	millimoles per cubic meter
AI mg/m2	active ingredient milligrams per square meter	mmol/mg/mi	millimoles per milligram per minute
AI mg/org	active ingredient milligrams per organism	mmol/mi/mg	millimoles per minute per milligram
AI mg/sd	active ingredient milligrams per seed	mmol/ml/h	millimoles per milliliter per hour
AI ml/100 L	active ingredient milliliters per 100 liters	mmu	absolute milli-mass units
AI ml/100 gal	active ingredient milliliters per 100 gallons	mo	month
AI ml/100 kg	active ingredient milliliters per 100 kilograms	mol	moles

Code	Definition	Code	Definition
AI ml/1000 L	active ingredient milliliters per 1000 liters	mol NO2/h/g	moles nitrogen dioxide per hour per gram
AI ml/378 L	active ingredient milliliters per 378 liters	mol/1000 ft3	moles per 1000 cubic feet
AI ml/500 g	active ingredient milliliter per 500 grams	mol/9.29 m2	moles per 9.29 square meters
AI ml/L	active ingredient milliliters per liter	mol/L	moles per liter
AI ml/ha	active ingredient milliliters per hectare	mol/L/day	moles per liter per day
AI ml/kg	Active Ingredient milliliters per kilogram	mol/dm3	moles per cubic decimeter
AI ml/kg diet	Active Ingredient milliliters per kilogram diet	mol/egg	moles per egg
AI ml/kg sd	Active ingredient milliliters per kilograms seed	mol/g	moles per gram
AI ml/m	active ingredient milliliters per meter	mol/g bdwt	moles per gram body weight
AI ml/m2	active ingredient milliliters per square meter	mol/g soil	moles per gram soil
AI ml/m2 canopy	active ingredient milliliters per square meter canopy	mol/ha	moles per hectare
AI ml/mi	active ingredient milliliters per minute	mol/kg	moles per kilogram
AI ml/org	Active Ingredient milliliters per organism	mol/kg bdwt	moles per kilogram body weight
AI ml/t	active ingredient milliliters per ton	mol/m3	moles per cubic meter
AI mmol/dm3	active ingredient millimoles per cubic decimeter	mol/ml	moles per milliliter
AI mol/eu	active ingredient moles per experimental unit	mol/org	moles per organism
AI mol/kg	Active ingredient moles per kilogram	mol/umol	moles per micromole

Code	Definition	Code	Definition
AI ng	active ingredient nanograms	molal	Molality
AI ng/L	active ingredient nanograms per liter	mole %	mole percent
AI ng/cm2	active ingredient. nanograms per square centimeter	morph/org	ectomycorrhizal morphotypes per organism
AI ng/cm2 lf	active ingredient nanograms per square centimeter leaf	mosmols/l	mosmoles (conc osmotic particles in solution) per liter
AI ng/eu	active ingredient nanograms per experimental unit	mouse unit/ml	mouse units per milliliter
AI ng/g	active ingredient nanograms per gram	mp/mg pro/15mi	microsomal proteins/milligram protein per 15 minutes
AI ng/kg fd	active ingredient nanograms per kilogram food	ms	milliseconds
AI ng/mL	active ingredient nanograms per milliliter	mu/24 h	milliunit per 24 hours
AI ng/mg bdwt	active ingredient nanograms per milligrams body weight	mu/mg	milliunit per milligram
AI ng/org	active ingredient nanograms per organism	mu/mi/ml	milliunit per minute per milliliter
AI ng/org/d	active ingredient nanograms per organism per day	mumol/0.5 ul	millimicromoles per 0.5 microliter
AI ng/ul diet	Active ingredient nanograms per microliter diet	mumol/g	mumoles per gram
AI oz/100 gal	active ingredient ounces per 100 gallons	mumol/g/mi	mumoles per gram per minute
AI oz/100 lb sd	active ingredient ounces per 100 pounds seed	munits	milliunits
AI oz/1000 ft	active ingredient ounces per 1000 feet	munits/org	milliunits per organism

Code	Definition	Code	Definition
AI oz/1000 ft2	active ingredient ounces per 1000 square feet	nCi	nanoCuries
AI oz/25 lb bdw	active ingredient ounces per 25 pounds body weight	nCi/L	nanoCuries per liter
AI oz/40 gal	active ingredient ounces per 40 gallons	nCi/g org	nanocuries per gram organism
AI oz/acre	active ingredient ounces per acre	nM	nanoMolar (nanomoles per liter)
AI oz/cwt sd	active ingredient ounces per hundredweight seed	nM DSMN:uM LYSI	nanomoles desmosine to micromoles lysine ratio
AI oz/in dbh	active ingredient ounces per inches diameter at breast height	nM/L	nanoMolar per liter
AI oz/lb seed	active ingredient ounces per pound seed	nM/g	nanoMolar per gram
AI ppb	active ingredient parts per billion	neq/g	nanoequivalents per gram
AI ppm	active ingredient parts per million	ng	nanograms
AI ppm H2O	active ingredient parts per million water	ng ATP/g dry soil	nanograms ATP per grams dry soil
AI ppm food	active ingredient parts per million food	ng days/L	nanogram days per liter
AI ppm soil w/w	active ingredient parts per million soil weight per weight basis	ng eq/ml	nanograms equivalents per milliliter
AI ppmw/soil vol	active ingredient parts per million by weight per soil volume	ng/0.3 L	nanograms per 0.3 liters
AI ppt	Active ingredient parts per trillion	ng/0.5 ml	nanograms per 0.5 milliliters
AI pt/acre	active ingredient pints per acre	ng/100 ml	nanograms per 100 milliliters
AI uM	active ingredient microMolar	ng/100g bdwt	nanograms per 100 grams per bodyweight

Code	Definition	Code	Definition
AI ug	active ingredient micrograms	ng/20 ul fd	nanograms per 20 microliters food
AI ug/0.5 ul	active ingredient micrograms per 0.5 microliters	ng/24h	nanograms per 24 hours
AI ug/10 ul	active ingredient micrograms per 10 microliters	ng/L	nanograms per liter
AI ug/100 cm2	active ingredient micrograms per 100 square centimeters	ng/TI	nanograms per tissue
AI ug/L	active ingredient micrograms per Liter	ng/cm	nanograms per centimeter
AI ug/cm2	active ingredient micrograms per square centimeter	ng/cm2	nanograms per square centimeter
AI ug/cm2 diet	active ingredient micrograms per square centimeters diet	ng/d	nanograms per day
AI ug/cm2 media	active ingredient micrograms per square centimeter of media	ng/dl	nanograms per deciliter
AI ug/eu	active ingredient micrograms per experimental unit	ng/egg	nanograms per egg
AI ug/g	active ingredient micrograms per gram	ng/eu	nanograms per experimental unit
AI ug/g bdwt	active ingredient micrograms per gram body weight	ng/fish	nanograms per fish
AI ug/g dry fd	active ingredient micrograms per gram dry food	ng/g	nanograms per gram
AI ug/g dry soil	active ingredient micrograms per gram dry soil	ng/g TE	nanograms per gram Toxic Equivalences
AI ug/g eu	active ingredient micrograms per gram experimental unit	ng/g TI	nanograms per gram tissue

Code	Definition	Code	Definition
AI ug/g org	active ingredient micrograms per gram organism	ng/g TI/4 h	nanograms per gram tissue per 4 hours
AI ug/g soil	active ingredient micrograms per gram soil	ng/g bdwt	nanograms per gram body weight
AI ug/kg	active ingredient micrograms per kilogram	ng/g diet	nanograms per gram diet
AI ug/kg bdwt/d	active ingredient micrograms per kilogram body weight per day	ng/g dry fd	nanograms per gram dry food
AI ug/kg fd	active ingredient micrograms per kilogram food	ng/g dry wt	nanograms per gram dry weight
AI ug/kg soil	active ingredient micrograms per kilogram soil	ng/g dw soil	nanograms per gram dry weight soil
AI ug/mg 100 ml solv	active ingredient micrograms per milligram in 100 milliliters of solvent	ng/g egg	nanograms per gram egg
AI ug/mg bdwt	active ingredient micrograms per milligram body weight	ng/g org	nanograms per gram organism
AI ug/ml	active ingredient micrograms per milliliter	ng/g org/d	nanograms per gram organism per day
AI ug/org	active ingredient micrograms per organism	ng/g soil	nanograms per gram soil
AI ug/sd	active ingredient micrograms per seed	ng/g wet wt	nanograms per gram wet weight
AI ug/ul	active ingredient micrograms per microliter	ng/g wet wt diet	nanograms per gram wet weight diet
AI ul/L	active ingredient microliters per Liter	ng/g/d	nanogram per gram per day
AI ul/ml	active ingredient microliters per milliliter	ng/gland	nanograms per gland

Code	Definition	Code	Definition
AI umol/kg dry soil	active ingredient micromoles per kilogram dry soil	ng/h	nanograms per hour
AI4.7L/42.1L/ha	active ingredient 4.7 liters per 42.1 liters per hectare	ng/kg	nanograms per kilogram
ALB:YK	albumen to yolk ratio	ng/kg bdwt/d	nanograms per kilogram body weight per day
AU	arbitrary units	ng/kg fd	nanograms per kilogram food
B'	Chromatid break	ng/kg soil	nanograms per kilogram soil
B''	Isochromatid break	ng/kg/d	nanograms per kilogram per day
BB units	BB units	ng/kg/wk	nanograms per kilogram per week
BO:LI	bone to liver ratio	ng/mg	nanograms per milligram
BR:BL	ratio of brain to blood	ng/mg bdwt	nanograms per milligram body weight
BU	Bessey Units	ng/mg fd	nanograms per milligram food
Bq	Becquerels	ng/mg pro	nanograms per milligram protein
Bq/L	Becquerels per liter	ng/mg/mi	nanograms per milligram per minute
Bq/g	Becquerels per gram	ng/mi/kg bdwt	nanograms per minute per kilograms body weight
Bq/kg	Becquerels per kilogram	ng/min	nanograms per minute
Bq/mg	Becquerels per milligram	ng/ml	nanograms per milliliter
Bq/ml	Becquerels per milliliter	ng/ml blood/d	nanograms per milliliter blood per day
Bq/org	Becquerels per organism	ng/ml fd	nanograms per milliliter food

Code	Definition	Code	Definition
C	Centigrade, degrees	ng/ml/h	nanograms per milliliter per hour
CHLA:CHLB	ratio of chlorophyll a to chlorophyll b	ng/ml/mi	nanograms per milliliter per minute
CI	color index	ng/mm/day	nanograms per millimeter per day
CRB:BR	ratio of cerebellum to brain	ng/org	nanograms per organism
CRM:BR	ratio of cerebrum to brain	ng/org/d	nanograms per org per day
CWU	CW units	ng/orwt	nanograms per organ weight
Ci/L	Curies per liter	ng/ul	nanograms per microliter
Ci/mmol	Curies per millimole	ngTEQ/kg bdwt/d	nanograms Toxic Equivalency Conc per kilogram body weight perday
Ci/mol	Curies per mole	nkat/mg pro	nanokatals per milligrams protein
DB/mg pro	lipid aliphatic double bonds per milligram protein	nl/L	nanoliter per liter
DNA:Protein	ratio of DNA to protein	nl/cm2	nanoliter per square centimeter
DNA:RNA	DNA to RNA ratio	nl/ml	nanoliters per milliliter
Draize score	Draize score	nl/org	nanoliters per organism
EU/g	enzyme unit (amt of enzyme needed to catalyze)/g	nmol	nanomoles
FD:Gain	ratio of weight of food consumed to weight gained	nmol ATP/g soil	nanomoles adenosine triphosphate per gram of soil
FD:WTR	food to water ratio	nmol DOPA/g/h	nanomoles DOPA per gram per hour
FER	feed efficiency ratio	nmol H2O2/mi/mg	nanomoles of peroxide per minute per milligram protein

Code	Definition	Code	Definition
FM	females	nmol MDA/mg pro	nanomoles malonaldehyde per milligram protein
FM/lit	females per litter	nmol PBG/g TI/h	nanomoles porphobilinogen per gram tissue per hour
FM:ML	females to males ratio	nmol PBG/h/ml	nanomoles porphobilinogen per hour per milliliter
FTS:PLC	fetus to placenta ratio	nmol enz/hr	nanomoles enzyme per hour
FU/g	fluorescence units per gram	nmol mdhyde/g	nanomoles malondialdehyde per gram
G'	Chromatid gap	nmol/100 mg pro	nanomoles per 100 milligrams protein
G''	Isochromatid gap	nmol/100mgpro/h	nanomoles per 100 milligrams protein per hour
Gain:FD	ratio of weight gained to weight of food consumed	nmol/L	nanomoles per liter
H'	Shannon-Weiner Diversity index	nmol/TI	nanomoles per tissue
HA units	Hemaglutinating units	nmol/cm2	nanomoles per square centimeter
Haugh U	Haugh units	nmol/egg	nanomoles per egg
ICU/kg diet	International chick unit per kilogram diet	nmol/g	nanomoles per gram
IU	International Units	nmol/g TI	nanomoles per gram tissue
IU/100 g bdwt	International Units per 100 grams body weight	nmol/g TI/h	nanomoles per g tissue per hour
IU/L	International units per liter	nmol/g bw	nanomoles per gram body weight
IU/d	International Units per day	nmol/g dry wt	nanomoles per gram dry weight
IU/g	International Units per gram	nmol/g food	nanomoles per gram food

Code	Definition	Code	Definition
IU/g TI	International Units per gram tissue	nmol/g humus	nanomoles per gram humus
IU/g diet	International units per gram diet	nmol/g lipid	nanomoles per gram lipid
IU/kg	International Units per kilogram	nmol/g pro	nanomoles per gram protein
IU/kg bdwt	International Units per kilogram body weight	nmol/g pro/mi	nanomoles per gram protein per minute
IU/kg diet	International units per kilogram diet	nmol/g ro/4 h	nanomoles per gram root per 4 hours
IU/mg	International Units per milligram	nmol/g soil	nanomoles per gram soil
IU/mg Hb	International Units per milligram hemoglobin	nmol/g wet wt	nanomoles per gram wet weight
IU/mg TI	International Units per milligram tissue	nmol/g/30mi	nanomoles per gram per 30 minutes
IU/mg pro	International Units per milligram pro	nmol/g/4 mi	nanomoles per gram per 4 minutes
IU/ml	International Units per milliliter	nmol/g/h	nanomoles per gram per hour
IU/orgwt	International Units per organ weight	nmol/g/mi	nanomoles per gram per minute
J/beat	Joules per beat	nmol/h/mg pro	nanomoles per hour per milligram protein
J/d	Joules per day	nmol/h/ml RBC	nanomoles per hour per milliliter red blood cells
K units	Karmen units	nmol/kg	nanomoles per kilogram
K/ml	karmen units per milliliter	nmol/kg bdwt	nanomoles per kilogram body weight
KA units	King/Armstrong units	nmol/kg/mi	nanomoles per kilogram per minute
KA/100ml	King/Armstrong units per 100 milliliters	nmol/mg	nanomoles per milligram
KA/g	King/Armstrong units per gram	nmol/mg TI	nanomoles per milligram tissue

Code	Definition	Code	Definition
KI:BR	kidney to brain ratio	nmol/mg pro	nanomoles per milligram per protein
Kunit/ml	k unit per milliliter	nmol/mg pro/h	nanomoles per milligram protein per hour
L	Liters	nmol/mg pro/mi	nanomoles per milligram protein per minute
L/0.4 ha	liter per 0.4 ha	nmol/mg/15mi	nanomoles per milligram protein per 15 minutes
L/1.4 m3 soil	liters per 1.4 cubic meters soil	nmol/mg/20mi	nanomoles per milligram protein per 20 minutes
L/1.5 cm3 soil	liters per 1.5 cubic centimeters soil	nmol/mg/h	nanomoles per milligram per hour
L/10 ac	liters per 10 acres	nmol/mg/mi	nanomoles per milligram per minute
L/100 lbs sd	liters per 100 pounds seed	nmol/mgpro/30mi	nanomoles per milligram protein per 30 minutes
L/1000 bu	liters per 1000 bushels	nmol/mi/g	nanomoles per minute per gram
L/1041 L/ha	liters per 1041 liters per hectare	nmol/mi/mg	nanomoles per minute per milligram
L/160 m soil	liters per 160 meters soil	nmol/mi/mg pro	nanomoles per minute per milligram protein
L/161 m soil	liters per 161 meters soil	nmol/mi/ml	nanomoles per minute per milliliter
L/80 kg N/ha	liters per 80 kilograms nitrogen per hectare	nmol/mi/ml RBC	nanomoles per minute per milliliter red blood cells
L/feddan	liters per feddan	nmol/mi/org	nanomoles per minute per organism
L/g	liters per gram	nmol/ml	nanomoles per milliliter
L/ha	Liters per hectare	nmol/ml RBC/h	nanomoles per milliliter red blood cells per hour
L/kg	liters per kilogram	nmol/mlpro/30mi	nanomoles per milliliter protein per 30 minutes

Code	Definition	Code	Definition
L/km	liters per kilometer	nmol/mol	nanomoles per mole
L/m2	Liters per square meter	nmol/nm p450/mi	nanomoles per nanomol cytochrome P450 per minute
L/m3	liters per cubic meter	nmol/org	nanomoles per organism
L/mg	liters per milligram	nmol/org/0.5h	nanomoles per organism per 0.5 hours
LGTH/s	length per second	nmol/org/h	nanomoles per organism per hour
LGTH:THIK	length to thickness ratio	no	number
LI:BR	liver to brain ratio	no >15cm	number that are greater than 15 centimeters
LU:BR	lung to brain ratio	no errors	no errors
M	molar	no follicles	number of follicles
M/dm3	molar per cubic decameter	no sites	number of sites
M/m3	molar per cubic meter	no/1 mi	number per 1 minute
MBq	Megabecquerel	no/10 mi	number per 10 minutes
MK:SR	milk to serum ratio	no/100 WBC	number per 100 white blood cells
ML	males	no/100 blsm clt	number per 100 blossom cluster
ML/lit	males per litter	no/100 u2	number per 100 square microns
ML/total	males per total population	no/100 um2	number per 100 square micrometers
ML:FM	males to females ratio	no/1000	number per 1000
MPa	megaPascals	no/1000 RBCE	number per 1000 red blood cells
N	Normal	no/1000 sperm	number per 1000 sperm
NA	not applicable	no/1000 um2	number per 1000 square micrometers

Code	Definition	Code	Definition
NC	not coded	no/12 h	number per 12 hours
NR	Not Reported	no/15 mi	number per 15 minutes
OD	optical density	no/15000x field	number per 15000x field
OD/100% RBC	optical density of 100% red blood cells	no/2.8 mm2	number per 2.8 square millimeters
OD/50 mg pro	optical density per 50 milligrams protein	no/200 cells	number per 200 cells
OD/WGHT	optical density per unit weight	no/30 mi	number per 30 minutes
OD/g pro	units of optical density change per gram protein	no/33 lbs	number per 33 pounds
OD/mg pro	optical density per milligram protein	no/5 mi	number per 5 minutes
OD/mi/mg pro	optical density per minute per milligram protein	no/5000 cells	number per 5000 cells
OT	optical transmission	no/area	number per area
OT/1 cm WDTH	optical transmission per 1 centimeter bone width	no/cell	number per cell
OT/10 cm BO	optical transmission per 10 centimeters bone	no/cm	number per centimeter
OT/10kg WGHT	optical transmission per 10 kilograms weight	no/d	number per day
OT/1mm CCT	optical transmission per 1 millimeter combined cortical thicknes	no/eu	number per experimental unit
OV:BR	ovary to brain ratio	no/fm	number per female
Odx10x3	optical density x10x3	no/g	number per gram
PCI	plastochron index	no/g soil	number per gram soil
PIg/L	PI grams per liter	no/h	number per hour
PL:BL	plasma to blood ratio	no/ha	number per hectare

Code	Definition	Code	Definition
PLC:BL	placenta to blood ratio	no/litter	number of organisms per litter
PSU	practical salinity units	no/m	number per meter
R	weight/(lenght x width)	no/m2	number per square meter
RA	ratio	no/mg TI	number per milligram tissue
RA 1e-3	ratio X 1e-3	no/mi	number per minute
RA/wk	ratio per week	no/mm2	number per square millimeter
RF units	RF units	no/mm2 * 1e-4	number per square millimeter X 1 X 10-4
RI	Ratcliffe index	no/mm3	number per cubic millimeter
RNA:DNA	RNA to DNA ratio	no/mm3 * 1e-4	number per cubic millimeter X 1 X 10 -4
RNA:Protein	RNA to protein ratio	no/mm3 * 1e-8	number per cubic millimeter X 1 X 10 -8
RR	Centric fusions	no/mo	number per month
RSA/TI	relative specific activity per tissue	no/neuron *1e-3	number per neuron X 1 X 10 -3
RV:TV	ratio of right ventricle to total ventricle	no/nuclei	number per nuclei
SA	Specific activity	no/org	number per organism
SFU	sigma Frankel units	no/org/d	number per organism per day
SL units	SL units	no/panicle	numbers per panicle
SL:ME	slice to median ratio	no/plot	number per plot
SP:BR	spleen to brain ratio	no/preg FM	number per pregnant female
T3:T4	Ratio of triidothyronine (T3) to thyroxine (T4)	no/sec	number per second
TE:BR	testes to brain ratio	no/section	number per section
TI:BL	Ratio of tissue to blood	no/seed	number per seed
TS:BR	thymus to brain ratio	no/sertoli cell	number per sertoli cells

Code	Definition	Code	Definition
Tbsp/eu	Tablespoons per experimental unit	no/so	number per shoot
Tbsp/gal	Tablespoons per gallon	nuclei:nucleoi	nuclei to nucleoi ratio
U of fl	Units of fluorescence	oocytes	oocytes
U/0.2 ml	units per 0.2 milliliters	open bol/org	opened bolls per organism
U/100 mg TI	Units per 100 milligram tissue	org	organism
U/kg	Units per kilogram	org conc/soil c	organism concentration per soil concentration
U/kg dry diet	units per kilogram dry diet	org/0.25ft2	organisms per 0.25 square feet
USP/org	USP units per organism	org/0.25m2	organisms per 0.25 square meters
V	value	org/0.3m	organisms per 0.3 meters
W units	Wrobleski units	org/10 m	organisms per 10 meters
WER	water efficiency ratio	org/100g soil	organisms per 100 grams soil
WO:LI	Whole organism to liver ratio	org/200 m2	organisms per 200 square meters
Wijs number	Wijs number	org/200cm3 soil	number of organisms per 200 cubic centimeters of soil
[%inhib]	[percent inhibition: % is unit, inhib is measurement]	org/50cm2	organisms per 50 square centimeters
a-amino N/24h	alpha aminonitrogen per 24 hours	org/60 leaves	organisms per 60 leaves
absrb	absorbance	org/cm ro	organisms per centimeter root
acre foot	acre foot	org/cntr	organisms per container
act	activity	org/d/cntr	organisms per day per container
act/g TI	activity per gram tissue	org/eu	organisms per experimental unit

Code	Definition	Code	Definition
act/g pro	activity per gram protein	org/fm	organisms per female
activ/nonactiv	activated to non-activated ratio	org/ft2	organisms per square foot
acts/3 mi	acts per 3 minutes	org/g	organisms per gram
ad	adults	org/g dry soil	organisms per gram dry soil
ad/jv	adults per juvenile	org/g humus	organisms per gram humus
ae M	acid equivalents molar	org/g root	organisms per gram root
ae g/100 m2	acid equivalents grams per 100 square meters	org/g soil	organisms per gram soil
ae g/200 L	acid equivalents grams per 200 liters	org/ha	organisms per hectare
ae g/L	acid equivalents grams per liter	org/kg soil	organisms per kilogram soil
ae g/ha	grams acid equivalents per hectare	org/km2	organisms per square kilometer
ae kg/ha	acid equivalents kilograms per hectare	org/lit	organisms per litter
ae lb/100 gal	acid equivalent pounds per 100 gallons	org/m	organisms per meter
ae lb/acre	acid equivalents pounds per acre	org/m2	organisms per square meter
ae lb/gal	acid equivalent pounds per gallons	org/mi	organisms per minute
ae mg/L	acid equivalents milligrams per liter	org/plot	organisms per plot
ae mg/kg	acid equivalents milligrams per kiligrams	org/sample	organisms per sample
ae mg/kg/d	acid equivalents milligrams per kilogram per day	org/sector	number of organisms per sector
ae mg/m2	acid equivalents milligrams per square meter	org/site	organisms per site

Code	Definition	Code	Definition
ae mg/org	acid equivalents milligrams per organism	org/trap	organism per trap
ae mmol/kg soil	acid equivalents millimoles per kilogram soil	org/trap/d	organisms per trap per day
ae oz/100gal/acre	acid equivalents ounces per 100 gallons per acre	org/tree	organisms per tree
ae ppb	acid equivalents parts per billion	org/w>150 mmHg	organisms with blood pressure >150 millimeters mercury
ae ppm	acid equivalents parts per million	org/w>160 mmHg	organisms with blood pressure >160 millimeters mercury
ae ug/L	acid equivalents micrograms per liter	org/wk	organisms per week
ae ug/ml	acid equivalents micrograms per milliliter	oz	ounces
ai g/L	active ingredient grams per liter	oz/100 gal	ounces per 100 gallons
ai g/kg sd	active ingredient grams per kilogram seed	oz/100 gal/acre	ounces per 100 gallons per acre
ai kg/379 l	active ingredient kilograms per 379 liters	oz/100 lb seed	ounces per 100 pound seed
ai lb/ha	active ingredient pounds per hectare	oz/1000 ft	ounces per 1000 feet
ai mg/kg org	active ingredient milligrams per kilogram organism	oz/1000 ft2	ounces per 1000 square feet
ai mg/ml	active ingredient milliliters per milliliter	oz/1000 ft3	ounces per 1000 cubic feet
ai ml/100m2	active ingredient milliliters per 100 square meters	oz/2.5 gal	ounces per 2.5 gallons
ai oz/bu	active ingredient ounces per bushel	oz/305 m	ounces per 305 meters
ai oz/bu sd	active ingredient ounces per bushel of seed	oz/acre	ounces per acre

Code	Definition	Code	Definition
amend:unamend	amended to unamended treatments ratio	oz/bu	ounces per bushel
amol/cell	attomoles per cell	oz/cwt	ounces per hundred weight
b/ml	billions per milliliter	oz/cwt sd	ounces per hundred weight seed
beats*ml/mi2	beats*milliliters per square minute	oz/ft2	ounces per square feet
beats/mi	beats per minute	oz/gal	ounces per gallon
bees/d	bees per day	oz/lb	ounces per pound
births	births	oz/lb sd	ounces per pound seed
bits	bits	oz/org	ounces per organism
branches/org	number of branches per organism	pCi/L	picoCuries per liter
bt/mi		pCi/g	picoCuries per gram
bud/org	buds per organism	pCi/ml	picoCuries per milliliter
burrows	burrows	pH	pH
bushel/acre	bushels per acre	pM	picoMolar
bushels	bushels	pair	pair
cRNA/mgRNA/DNA	(counts per minute RNA per milligram RNA) per milligram DNA	pc	permeability constant
cal	calories	pecks/s	pecks per second
cal/d	calories per day	pellet/d	pellets per day
castings	castings	pellet/org/d	pellets per organism per day
casts/eu	casts per experimental unit	pellets	pellets
casts/m2/d	casts per square meter per day	pg	picograms
casts/pl	casts per plot	pg TE/g egg	picograms Toxic Equivalent per gram egg
cc	cocoons	pg/L	picograms per liter

Code	Definition	Code	Definition
cc/10 ad	cocoons per 10 adults	pg/TI	picograms per tissue
cc/ad	cocoons per adult	pg/cell	picograms per cell
cc/cntr	cocoons per container	pg/cm2	picograms per square centimeter
cc/eu	cocoons per experimental unit	pg/dm3	picograms per cubic decimeter
cc/org	cocoons per organism	pg/g	picograms per gram
cc/org/8wk	cocoons per organism per 8 weeks	pg/g TI	picograms per gram tissue
cc/org/wk	cocoons per organism per week	pg/g diet	picograms per gram diet
cc/sad	cocoons per surviving adult	pg/g egg	picograms per gram egg
cc/unit	cocoons per unit	pg/g wet wt	picograms per gram wet weight
cell/8 srtl cel	cells per 8 sertoli cells	pg/kg bdwt/d	picograms per kilogram body weight per day
cell/mi x10x3	cells per minute x10x3	pg/kg egg	picograms per kilogram egg
cell/mm3	cells per cubic millimeter	pg/mg TE	picograms per milligram Toxic Equivalences
cell/u.a.	cells per unit area	pg/mg org	picograms per milligram org
cell:nuclei	cells to nuclei ratio	pg/mi	picograms per minute
cells	cells	pg/ml	picograms per milliliter
cells/100 clm	cells per 100 coelomocytes	pg/org	picograms per organism
cells/1e+6 cell	cells per 1 X 10 +6 cells	pg/ul	picograms per microliter
cells/50 mg	cells per 50 milligrams	pmol	picomoles
cells/TI	cells per tissue	pmol/L	picomoles per liter
cells/area	cells per area	pmol/cell	picomoles per cell
cells/mg TI	cells per milligram tissue	pmol/egg	picomoles per egg

Code	Definition	Code	Definition
cells/ml	cells per milliliter	pmol/g	picomoles per gram
cells/mm cortex	cells per millimeter cortex	pmol/g bdwt	picomoles per gram body weight
cells/mm folium	cells per millimeter folium	pmol/g egg	picomoles per gram egg
cells/mm2	cells per square millimeter	pmol/g/mi	picomoles per gram per minute
cells/tubule	cells per tubule	pmol/hr/mg	picomoles per hour per milligram
cellx10x2/ul	cells x10x2 per microliter	pmol/kg egg	picomoles per kilogram egg
cfu/mg	colony forming units per milligram	pmol/mg	picomoles per milligram
cfu/ml	colony forming units per milliliter	pmol/mg pro	picomoles per milligram protein
chem/d	chemical per day	pmol/mg pro/h	picomoles per milligram protein per hour
clusters	clusters	pmol/mg pro/mi	picomoles per milligram protein per minute
clutches	clutches	pmol/mg/10 mi	picomoles per milligram per 10 minutes
cm	centimeters	pmol/mg/30 mi	picomoles per milligram protein per 30 minutes
cm H2O	centimeters of water	pmol/mg/d	picomoles per milligram per day
cm/cm3	centimeters per cubic centimeter	pmol/mg/h	picomoles per milligram per hour
cm/d	centimeters per day	pmol/mg/mi	picomoles per milligram per minute
cm/dm3	centimeters per cubic decimeter	pmol/mg/nmol r	picomoles per milligram per nanomol rhodopsin
cm/g bdwt/h	centimeters per gram bodyweight per hour	pmol/mi/g TI	picomoles per minute per gram tissue

Code	Definition	Code	Definition
cm/g soil	centimeters per gram soil	pmol/mi/mg pro	picomoles per minute per milligram protein
cm/org	centimeters per organisms	pmol/ml	picomoles per milliliter
cm/wk	centimeters per week	pmol/nl	picomoles per nanoliter
cm2	centimeters squared	pmol/nm p450/mi	picomoles per nanomol cytochrome P450 per minute
cm2/100bees	centimeters squared per 100 bees	pmol/org	picomoles per organism
cm2/kg	square centimeters per kilogram	ppb	parts per billion
cm2/org	square centimeters per organism	ppb H2O	parts per billion water
cm3	cubic centimeters	ppb food	parts per billion food
cm3 O2 evolved	cubic centimeters of oxygen evolved	ppb/2H/org	parts per billion per two hours per organism
cm3 O2/g/h	cubic centimeters of O2 per gram per hour	ppb/ml	parts per billion per milliliter
cm3/0.7 ha	cubic centimeters per 0.7 hectare	pphr	parts per hundred rubber
cm3/100 L	cubic centimeters per 100 liters	ppm	parts per million
cm3/4L	cubic centimeters per 4 liters	ppm H2O	parts per million water
cm3/cm3	cubic centimeters per cubic centimeters	ppm dry wt	parts per million dry weight
cm3/dm3	cubic centimeters per cubic decimeter	ppm dw fd	parts per million dry weight food
cm3/eu	cubic centimeters per experimental unit	ppm food	parts per million food
cm3/feddan	cubic centimeters per feddan (1 feddan = 1.038 acres)	ppm for 36hr	parts per million per 36 hours
cm3/ft	cubic centimeters per foot	ppm soil	parts per million soil

Code	Definition	Code	Definition
cm3/ft2	cubic centimeters per square foot	ppm solvent	parts per million in solvent
cm3/hL	cubic centimeters per hectoliter	ppm wet wt fd	parts per million wet weight food
cm3/ha	cubic centimeters per hectare	ppm-hour	parts per million hour
cm3/kg	cubic centimeters per kilogram	ppm/100g bdwt/d	parts per million per 100 grams body weight per day
cm3/l	cubic centimeters per liter	ppm/L	parts per million per liter
cm3/m2	cubic centimeters per cubic meter	ppm/d	parts per million per day
cm3/org	cubic centimeters per organism	ppm/d/kg bdwt	parts per million per day per kilogram body weight
cm3/yd	cubic centimeters per yard	ppm/eu	parts per million per experimental unit
cmol/kg	centimoles of charges/kilogram	ppm/g bdwt	parts per million per gram body weight
cmol/kg dry soil	centimoles per kilograms dry soil	ppm/gal	parts per million per gallon
cpm	counts per minute	ppm/mi	parts per million per minute
cpm 1e-4	counts per minute * 1 X 10-4	ppm/ml	parts per million per milliter
cpm x 1000	counts per minute X 1000	ppm/organi	parts per million per organism
cpm/1e+5 cells	counts per minute per 1X10+5 cells	ppmv	parts per million by volume
cpm/L	counts per minute per liter	ppmv/eu	parts per million by weight per pot
cpm/cc	counts per minute per coccoon	ppmw	parts per million by weight
cpm/g TI	counts per minute per gram tissue	ppmw H2O	parts per million by weight in water
cpm/mg	counts per minute per milligram	ppmw diet	parts per million by weight diet

Code	Definition	Code	Definition
cpm/mg DNA	counts per minute per milligram DNA	ppt	parts per trillion
cpm/mg RNA	counts per minute per milligram RNA	prdt/mi/mg pro	product formed per minute per milligram protein
cpm/mg UA	counts per minute per milligram uronic acid	pt	pints
cpm/mg pro	counts per minute per milligram protein	pt/100 ft2	pints per 100 square feet
cpm/ml	counts per minute per milliliter	pt/100 gal	pints per 100 gallons
cpm/org	counts per minute per organism	pt/acre	pints per acre
cwt/acre	hundredweights per acre	pt/gal	pints per gallon
cyc/deg	cycles per degree	ptm	parts per thousand million
d	day	q/ha	quintals per hectare
dS/m	deciSiemens per meter	qt/100 gal	quarts per 100 gallons
dead:live	dead to live organisms ratio	qt/acre	quarts per acre
degree	degree	qt/gal	quarts per gallon
divisions/cell	divisions per cell	rate/100 org	rate per 100 organisms
dm2	decimeters squared	rate/mi	rate per minute
dm3/ha	cubic decimeter per hectare	rev	revolutions
dn(Cyprus)	dunam, dunum or donum (Cyprus = 1338 square meters)	rev/5 h	revolutions per 5 hours
dn(Iraq)	dunam, dunum or donum (Iraq = 2500 square meters)	rgv	relative gray value
dn(Std)	dunam, dunum or donum (Standard metric = 1000 square meters)	ro:so	root to shoot ratio
dpm	disintegrations per minute	rpm	revolutions per minute

Code	Definition	Code	Definition
dpm 1e-3/ml	disintegrations per minute * 1 X 10-3 per milliliter	s	seconds
dpm treat:cntl	ratio of disintegrations per minute treated to control	s/12 rpm	seconds per 12 revolutions per minute
dpm/167 mg TI	disintegrations per minute per 167 milligrams tissue	s/16 rpm	seconds per 16 revolutions per minute
dpm/800g soil	disintegrations per 800 grams soil	s/8 rpm	seconds per 8 revolutions per minute
dpm/EU	disintegrations per minute per experimental unit	s/g	seconds per gram
dpm/g	disintegrations per minute per gram of tissue	s/h	seconds per hour
dpm/g*100	disintegrations per minute per gram*100	sd/org/d	seeds per organism per day
dpm/mg	disintegrations per minute per milligram	sessions	sessions
dpm/mg FA	disintegrations per minute per milligram fatty acid	sgth:thik	Strength to thickness ratio
dpm/mg GH	disintegrations per minute per milligram growth hormone	sgth:wght	Strength to weight ratio
dpm/mg GH*100	disintegrations per minute per milligram growth hormone*100	sigma u/100ml	sigma units per 100 milliliters
dpm/mg pro	disintegrations per minute per milligram protein	so/ft2	shoots per square foot
dpm/ml	disintegrations per minute per milliliter	so:gr	ratio plant shoot to grain
dpm/n	disintegrations per minute per N	so:ro	shoot to root ratio
e/100hd	eggs per 100 hen days	spec gravity	specific gravity
e/hd	eggs per hen day	species	species

Code	Definition	Code	Definition
ea/eu	ears per experimental unit	spines/u area	spines per unit area
egg cap/org	egg capsules per organism	spots/le	spots per leaf
egg/100 ad	eggs per 100 adults	str:gr	plant straw to grain ratio
eggs	egg(s)	succ br	successful broods
eggs/10 wks	eggs per 10 weeks	succ br/fm	successful broods per female
eggs/8 wks	eggs per 8 weeks	t/ha gr/t/ha gr	tons per hectare grain over tons per hectare grains plus straw [
eggs/BDAY	eggs per bird-day	taxa	taxa
eggs/d	eggs per day	tillers/m2	tillers per square meter
eggs/fm	eggs per female	tons	tons
eggs/fm/8 wk	eggs per female per 8 weeks	tons/acre	tons per acre
eggs/fm/d	eggs per female per day	tons/ha	tons per hectare
eggs/fm/wk	eggs per female per week	top:root	ratio plant top to roots
eggs/org	eggs per organism	treated:cntl	ratio treated to control
eggs/org/d	eggs per organism per day	trials	trials
eggs/org/wk	eggs per organism per week	tsp/mound	teaspoons per mound
eggs/pair	eggs per pair	u act	unit activity (an increase in absorbance at 555 nm of 0.100, wit
eggs/raft	eggs per raft	u act/h	unit activity per hour
em	embryos	u-atoms/egg	microatoms per egg
em/FM	embryos per female	u/TI	units per tissue
enz act	enzyme activity or enzyme activity unit	u/co2/50mg/10mi	units per carbon dioxide per 50 milligrams per 10 minutes

Code	Definition	Code	Definition
enz act/mg	enzyme activity per milligram	u/d	units per day
eq/l	equivalents per liter	u/g	units per gram
eu	enzyme unit	u/mg N2	units per mg N2
failures	failures	u/mg TI	units per milligram tissue
fet	fetuses	u2	square microns
fetuses/litter	fetuses per litter	u2/300,000 u2	square micrometers per 300,000 micrometers squared
fg	femtogram	u3	cubic microns
fg/org	femtograms per organism	uBq	microBecquerels
final:initial	ratio of initial parameter to final parameter	uCI/g org	microcuries per gram organism
fl	femtoliters	uCi	microCuries
fl oz mat/cwt	fluid ounces material per hundredweight	uCi/100 g org	microCuries per 100 grams organism
fl oz/10 gal	fluid ounces per 10 gallons	uCi/3.6mg	microCuries per 3.6 milligrams
fl oz/100 gal	fluid ounces per 100 gallons	uCi/30mg	microCuries per 30 milligrams
fl oz/1000 ft	fluid ounces per 1000 feet	uCi/L	microCuries per liter
fl oz/1000 ft2	fluid ounces per 1000 square feet	uCi/g	microCuries per gram
fl oz/50 gal/acre	fluid ounces per 50 gallons per acre	uCi/g soil	microcuries per gram soil
fl oz/acre	fluid ounces per acre	uCi/kg	microCuries per kilogram
fl oz/cwt	fluid ounces per hundredweight	uCi/mg	microCuries per milligram
fl oz/in dbh	fluid ounces per inches diameter at breast height	uCi/ml	microCuries per milliliter
fledge/pair	fledglings/pair or young fledged/pair	uCi/nmol	microCuries per nanomoles

Code	Definition	Code	Definition
fmol	femtomol	uCi/org	microCuries per organism
fmol/mg	femtomol per milligram	uCi/ug	microCuries per micrograms
fmol/mg pro	femtomol per milligram protein	uCi/ul	microCuries per microliter
fr	frames (bees)	uIU/ml	microInternational units per milliliter
g	grams	uL/100 L	microliters per 100 liters
g GAIN/g fd/d	grams weight gained per gram food per day	uM	microMolar
g GAIN/kg fd	grams weight gained per kilogram food	uM B-naph/h/mgP	micromoles beta-naphthalene per hour per milligram protein
g H2O/dm2/h	grams H2O per squared decameter per hour	uM B-naph/h/ml	micromoles beta-naphthalene per hour per milliliter
g TI/100 g bdwt	grams tissue per 100 grams bodyweight	uM BAPNA/mi/mgP	micromoles of BAPNA inhibited per minute per milligram protein
g d/m3	grams day per cubic meter	uM BAPNA/mi/ml	micromoles of BAPNA inhibited per minute per milliliter
g food	grams food	uM BTEE/mi/mgP	micromoles BTEE per minute per milligram protein
g h/m3	grams hours per cubic meter	uM P/g	micromoles Phosphorous per gram
g%	gram percent	uM SAPNA/mi/mgP	micromoles of SAPNA inhibited per minute per milligram protein
g% w/v	gram percent on a weight per volume basis	uM SAPNA/mi/ml	micromoles of SAPNA inhibited per minute per milliliter
g/0.25 acre	grams per 0.25 acres	uM TAME/mi/mgP	micromoles TAME per minute per milligram protein
g/0.4 ha	grams per 0.4 hectare	uM/100g	microMolar per 100 grams

Code	Definition	Code	Definition
g/0.5 m2	grams per 0.5 meters squared	uM/L	microMolar per liter
g/1.2 kg soil	grams per 1.2 kilograms soil	uM/TI	micromoles per tissue
g/1.4 kg soil	grams per 1.4 kilograms soil	uM/cm3	microMolar per cubed centimeter
g/1.6 kg soil	grams per 1.6 kilograms soil	uM/h	micromoles per hour
g/1.8 kg soil	grams per 1.8 kilograms soil	uM/h/l RBC	micromoles per hour per liter red blood cells
g/1.8kg sd	grams per 1.8 kilograms seed	uM/h/mg pro	micromolar per hour per milligram protein
g/10 L	grams per 10 liters	uM/kg	microMolar per kilogram
g/10 L soil	grams per 10 liters soil	uM/kg wght	micromoles per kilogram weight
g/10 acre	grams per 10 acres	uM/kg/mi	microMolar per kilogram per minute
g/10 ft	grams per 10 feet	uM/mg pro	microMolar per milligram protein
g/10 m	grams per 10 meters	uM/min/g	microMolar per minute per gram
g/10.2 L	grams per 10.2 liters	uM/ml	micromolar per milliliter
g/100 L	grams per 100 liters	uS/cm	micro Siemens per centimeter
g/100 cm3	grams per 100 cubic centimeters	uU/ml	microunits per milliliter
g/100 g sd	grams per 100 grams seed	uV	microVolts
g/100 gal	grams per 100 gallons	ueq/L	microequivalents per liter
g/100 kg sd	grams per 100 kilograms seed	ueq/g	microequivalents per gram
g/100 le	grams per 100 leaves	ueq/g pro/mi	microatom equivalents per gram protein per minute
g/100 m	grams per 100 meters	ug	micrograms

Code	Definition	Code	Definition
g/100 m2	grams per 100 square meters	ug %	micrograms percent
g/100 sd	grams per 100 seeds	ug CO2/g dry soil/h	micrograms carbon dioxide per grams dry soil per hour
g/100 stl	grams per 100 stolons	ug GHA/1e+6 c/h	micrograms gamma-glutamylhydroximate per 1X10 +6 cells per hour
g/1000 L	grams per 1000 liters	ug Hg203/g TI	micrograms Hg203 per gram tissue
g/1000 ft	grams per 1000 feet	ug N/g	micrograms nitrogen per gram
g/1000 ft3	grams per 1000 cubic feet	ug NANA/TI	micrograms N-acetyl neuraminic acid per tissue
g/1000 g	grams per 1000 grams	ug O/g pro/mi	micrograms oxygen per gram protein per minute
g/1000 g food	grams per 1000 grams food	ug PAP/g/20 mi	micrograms peroxidase-anti-peroxidase (PAP) per gram per 20 min
g/1000 kg food	grams per 1000 kilograms food	ug PAP/g/30 mi	micrograms peroxidase-anti-peroxidase (PAP) per gram per 30 min
g/1000 lb	grams per 1000 pounds	ug POH/mg pro/m	micrograms phenol per milligrams protein per minute
g/1000 org	grams per 1000 organisms	ug Pi/mg	micrograms Pi/milligram
g/1000gr	grams per 1000 grains	ug Pi/mg MIT	micrograms Pi/milligram mitochondria
g/100g	grams per 100 grams	ug Pi/mg TI	micrograms Pi/milligram tissue
g/100g BW	grams per 100 grams body weight	ug TE/kg	micrograms Toxic Equivalent per kilogram

Code	Definition	Code	Definition
g/100g BW/d	grams per 100 grams body weight per day	ug TEQ/kg bw/wk	micrograms Toxic Equivalency Concentration per kg bdwt per week
g/100g bdwt/h	grams per 100 grams per bodyweight/hour	ug TTC/mg pro/h	micrograms triphenyl tetrazolium chloride reduced per milligram
g/100g diet	grams per 100 grams diet	ug chl/cm2	micrograms chlorophyll per square centimeter
g/100g org	grams per 100 grams organism	ug chl/mg leaf	micrograms chlorophyll per milligram of leaf
g/100kg	grams per 100 kilograms	ug dry fd/d	micrograms dry food per day
g/100kg org	grams per 100 kilograms organism	ug enz/g/h	microgram enzyme per gram per hour
g/100ml	grams per 100 milliliters	ug frmzn/100 g	micrograms formazan formed per 100 grams tissue
g/10g diet	grams per 10 grams diet	ug pro ld/ne	ug proteolipid per nerve pair
g/13.5 L	grams per 13.5 liters	ug%	microgram percent
g/13125 ft2	grams per 13125 square feet	ug-atoms/L	micrograms atoms per liter
g/15 cm	grams per 15 centimeters	ug/0.1 ml/d/org	micrograms per 0.1 milliliter per day per organism
g/16 L	grams per 16 liters	ug/0.5 g	micrograms per 0.5 grams
g/1600 org	grams per 1600 organisms	ug/10 L	micrograms per 10 liters
g/189.25 L	grams per 189.25 liters	ug/10 g bdwt	micrograms per 10 grams body weight
g/2 L	grams per 2 liters	ug/100 g bdwt	micrograms per 100 grams body weight
g/2.25 m2	grams per 2.25 square meters	ug/100 g bdwt/d	micrograms per 100 grams body weight per day
g/200 m2	grams per 200 square meters	ug/100 mg	micrograms per 100 milligrams

Code	Definition	Code	Definition
g/200 ml	grams per 200 milliliters	ug/100 mg TI	micrograms per 100 milligram tissue
g/250 L	grams per 250 liters	ug/100g	micrograms per 100 grams
g/2500cm2	grams per 2500 centimeters squared	ug/100g org/d	micrograms per 100 grams organism per day
g/27 kg sd	grams per 27 kilograms seed	ug/100g/d	micrograms per 100 grams per day
g/3 kg seed	grams per 3 kilograms seed	ug/100mg/30mi	micrograms per 100 milligrams per 30 minutes
g/3.79 L	grams per 3.79 liters	ug/100mg/h	micrograms per 100 milligrams per hour
g/30.5 m	grams per 30.5 meters	ug/100ml	micrograms per 100 milliliters
g/300 g seed	grams per 300 grams seed	ug/100ml RBC	micrograms per 100 milliliters red blood cells
g/305 m	grams per 305 meters	ug/2 org/d	micrograms per 2 organisms per day
g/37.9L/0.1 ha	grams per 37.9 liters per 0.1 hectare	ug/2.5 ul/h	micrograms per 2.5 microliters per hour
g/379 L	grams per 379 liters	ug/200mg/30mi	micrograms per 200 milligrams per 30 minutes
g/4 d	grams per 4 days	ug/24h	micrograms per 24 hours
g/400m	grams per 400 meters	ug/24h/org	micrograms per 24 hours per organism
g/45.4 kg bdwt/d	grams per 45.4 kilograms body weight per day	ug/250 g bdwt	micrograms per 250 grams body weight
g/45.4 kg seed	grams per 45.4 kilograms seed	ug/3.5L	micrograms per 3.5 liters
g/454 g seed	grams per 454 grams seed	ug/300 g bdwt	micrograms per 300 grams body weight
g/4719 cm3 soil	grams per 4719 cubic centimeters soil	ug/4 d	micrograms per 4 days

Code	Definition	Code	Definition
g/4719 m3 soil	grams per 4719 cubic meters soil	ug/50 g bdwt	micrograms per 50 grams body weight
g/5 kg soil	grams per 5 kilograms soil	ug/50 ml	micrograms per 50 milliliters
g/5 m2	grams per 5 meters squared	ug/500g	micrograms per 500 grams
g/50 ml	grams per 50 milliliters	ug/50ul	micrograms per 50 microliters
g/50 org	grams per 50 organisms	ug/72h	micrograms per 72 hours
g/50 seeds	grams per 50 seeds	ug/L	micrograms per liter
g/500 g diet	grams per 500 grams diet	ug/L fd	micrograms per liter food
g/500 ml	grams per 500 milliliters	ug/L/d	micrograms per liter per day
g/60 cm	grams per 60 centimeters	ug/L/hr	microgram per liter per hour
g/7 kg	grams per 7 kilograms	ug/TI	micrograms per tissue
g/70 d	grams per 70 days	ug/bee	micrograms per bee
g/946 ml	grams per 946 milliliters	ug/branch	micrograms per branch
g/BDAY	grams per bird-day	ug/cell	micrograms per cell
g/FM	grams per female	ug/cm2	micrograms per square centimeter
g/L	grams per liter	ug/cm2 lf	micrograms per square centimeter leaf
g/L soil	grams per liter soil	ug/cm2/d	micrograms per square centimeter per day
g/LE	grams per leaf	ug/cm3	micrograms per cubic centimeter
g/LIT	grams per litter	ug/d	micrograms per day
g/ML	grams per male	ug/d/org	micrograms per day per organism
g/acre	grams per acre	ug/disk	micrograms per disk
g/bdwt e0.75	grams per body weight * 1e0.75	ug/dl	micrograms per deciliter

Code	Definition	Code	Definition
g/bee	grams per bee	ug/dm3	micrograms per cubic decimeter
g/bushel	grams per bushel	ug/egg	micrograms per egg
g/cc	grams per cocoon	ug/em	micrograms per embryo
g/cm	grams per centimeter	ug/eu	micrograms per experimental unit
g/cm dbh	grams per centimeter diameter at breast height	ug/eu/d	micrograms per experimental unit per day
g/cm2	grams per square centimeter	ug/fish	micrograms per fish
g/cm3	grams per cubic centimeter	ug/g	micrograms per gram
g/d	grams per day	ug/g CREA	micrograms per gram creatinine
g/d/100 g bdwt	grams per day per 100 grams body weight	ug/g OC	micrograms per gram Organic Carbon
g/d/100kg org	grams per day per 100 kilograms organism	ug/g TI	micrograms per gram tissue
g/d/org	grams per day per organism	ug/g agar	micrograms per gram agar
g/d/wght	grams per day per weight	ug/g ash	micrograms per gram ash
g/dl	grams per deciliter	ug/g bdwt	micrograms per gram body weight
g/dm3	grams per cubic decimeter	ug/g bdwt/d	micrograms per gram body weight per day
g/dn(Std)	grams per dunam, dunum or donum (Std 1000m2)	ug/g bdwt/h	micrograms per gram body weight per hour
g/eu	grams per experimental unit	ug/g bdwt/wk	micrograms per gram body weight per week
g/eu/d	gramss per experimental unit per day	ug/g diet	micrograms per gram diet
g/feddan	grams per feddan (1 feddan = 1.038 acres)	ug/g dry cmpst	micrograms per gram dry compost

Code	Definition	Code	Definition
g/fish	grams per fish	ug/g dry fd	micrograms per gram dry food
g/fruit	grams per fruit	ug/g dry fd/d	micrograms per gram dry food per day
g/ft org	grams per foot of organism	ug/g dry soil	micrograms per gram dry soil
g/ft2	grams per square foot	ug/g dry soil/h	micrograms per gram dry soil per hour
g/ft3	grams per cubic foot	ug/g dry wt	micrograms per gram dry weight
g/g Tl	grams per gram tissue	ug/g egg	micrograms per gram egg
g/g bdwt	grams per gram body weight	ug/g eu	micrograms per gram experimental unit
g/g bdwt/d	grams per gram body weight per day	ug/g food	micrograms per gram food
g/g dry humus	grams per gram dry humus	ug/g lipid diet	micrograms per gram lipid in diet
g/g fd	grams per gram food	ug/g npro	micrograms per gram nonprotein
g/g org	grams per gram organism	ug/g om	micrograms per gram organic matter
g/gal	grams per gallon	ug/g org	micrograms per gram organism
g/h	grams per hour	ug/g org x 10+2	micrograms per gram organism multiplied by 10+2
g/hL	grams per hectoliter	ug/g org x 1E2	micrograms per gram organism x 1E2
g/ha	grams per hectare	ug/g org/d	micrograms per gram organism per day
g/hd	grams per hen day	ug/g org/wk	micrograms per gram organism per week
g/jv	grams per juvenile	ug/g pro	micrograms per gram protein
g/kg	grams per kilogram	ug/g pro/mi	micrograms per gram protein per minute

Code	Definition	Code	Definition
g/kg bdwt	grams per kilogram body weight	ug/g soil	micrograms per gram soil
g/kg bdwt/d	grams per kilogram body weight per day	ug/g wet fd/d	micrograms per gram wet food per day
g/kg bdwt/h	grams per kilogram body weight per hour	ug/g wet wt	micrograms per gram wet weight
g/kg dry fd	grams per kilogram dry food	ug/g wet wt diet	micrograms per gram wet weight diet
g/kg fd	grams per kilogram food	ug/g/30 min	micrograms per gram per 30 minutes
g/kg sd	grams per kilograms seed	ug/g/d	micrograms per gram per day
g/kg soil	grams per kilogram soil	ug/g/kg bdwt	micrograms per gram per kilogram body weight
g/kg*e0.75 bdwt	grams per kg * 1e0.75 body weight	ug/g/wk	micrograms per gram per week
g/kg/d	grams per kilogram per day	ug/h	micrograms per hour
g/km	grams per kilometer	ug/h/100 g	micrograms per hour per 100 grams
g/l/m2	grams per liter per square meter	ug/h/100 ml	micrograms per hour per 100 milliliters
g/lb seed	grams per pound of seed	ug/kg	micrograms per kilogram
g/linear ft	grams per linear foot	ug/kg LD	micrograms per kilogram lipid
g/m	grams per meter	ug/kg TI	micrograms per kilograms tissue
g/m2	grams per square meter	ug/kg bdwt	micrograms per kilogram body weight
g/m3	grams per cubic meter	ug/kg bdwt/d	micrograms per kilogram body weight per day
g/ml	grams per milliliter	ug/kg bdwt/h	micrograms per kilogram body weight per hour

Code	Definition	Code	Definition
g/ml/100 L	grams per milliliter per 100 liters	ug/kg bdwt/wk	micrograms per kilogram body weight per week
g/ml/eu	grams per milliliter per experimental unit	ug/kg dry soil	micrograms per kilogram dry soil
g/org	grams per organism	ug/kg dry wt org	micrograms per kilogram dry weight organism
g/org/42 d	grams per organism per 42 days	ug/kg egg	micrograms per kilogram egg
g/org/d	grams per organism per day	ug/kg fd	microgram per kilogram food
g/org/eu	grams per organism per experimental unit	ug/kg org	micrograms per kilogram organism
g/org/wk	grams per organism per week	ug/kg org/d	micrograms per kilogram organism per day
g/org/yr	grams per organism per year	ug/kg soil	micrograms per kilogram soil
g/plot	grams per plot	ug/kg/d	micrograms per kilogram per day
g/quadrant	grams per quadrant	ug/kg/mi	micrograms per kilogram per minute
g/sample	grams per sample	ug/kg/wk	micrograms per kilogram per week
g/shell	grams per shell	ug/lf	micrograms per leaf
g/ton	grams per ton	ug/m2	micrograms per square meter
g/ug	grams per microgram	ug/m3	micrograms per cubic meter
g/wk	grams per week	ug/mg	micrograms per milligram
g/yd2	grams per square yard	ug/mg MIT	micrograms per milligram mitochondria
g/yr	grams per year	ug/mg TI	micrograms per milligram tissue
gal	gallons	ug/mg bdwt	micrograms per milligram body weight

Code	Definition	Code	Definition
gal/0.5 rod2	gallons per 0.5 square rods	ug/mg food	micrograms per milligram food
gal/100 gal	gallons per 100 gallons	ug/mg org	micrograms per milligram organism
gal/ac f	gallons per acre foot	ug/mg pro	micrograms per milligram protein
gal/acre	gallons per acre	ug/mg pro/hr	micrograms per milligram protein per hour
gal/cwt	gallons per 100 weight	ug/mi	micrograms per minute
gal/gal	gallon per gallon	ug/mi/mg pro	micrograms per minute per milligram protein
gamma/day	gamma/day (Von Bertalanffy growth)	ug/min/ml	micrograms per minute per milliliter
gamma/g TI	gamma counts per gram tissue	ug/ml	micrograms per milliliter
gg	gamma gamma	ug/ml H2O	micrograms per milliliter water
gila:neruon	gila to neuron ratio	ug/mm3	micrograms per cubic millimeter
grade	grade	ug/org	micrograms per organism
grain/panicle	grains per panicle	ug/org dry wt	micrograms per organism dry weight
granules	granules	ug/org/d	micrograms per organism per day
granules/kg bwt	granules per kilogram body weight	ug/org/wk	micrograms per organism per week
h	hour	ug/sample	micrograms per sample
hatchability	hatchability	ug/tank/wk	micrograms per tank per week
hsk:gr	ratio plant husk to grain	ug/ul	micrograms per microliter
hz	hertz	ul	microliters
hz/s	hertz per second	ul Eq/ml	microliters equivalents per milliliter

Code	Definition	Code	Definition
implants	implants	ul O2/g/h	microliters O2 per gram per hour
in	inches	ul O2/hr/g	microliters oxygen per hour per gram
in2	inches squared	ul O2/mi/g	microliters oxygen per minute per gram
inclusion	internuclear inclusion body	ul/0.5 m2	microliters per 0.5 square meters
index	index	ul/100 g bdwt	microliters per 100 grams body weight
jv	juveniles	ul/100ml	microliter per 100 milliliter
jv/ad	juveniles per adult	ul/200 ml	microliters per 200 milliliters
jv/cc	juveniles per cocoon	ul/20ml	microliter per 20 milliliter
jv/eu	juveniles per experimental unit	ul/300 ml	microliters per 300 milliliters
jv/fm	juveniles per female	ul/720 ml	microliter per 720 milliliter
jv/ftcc	juveniles per fertile cocoon	ul/L	microliters per liter
jv/lit	juveniles per litter	ul/L/24h	microliters per liter per 24 hours
jv/mated fm	juvenile per mated female	ul/L/7 h	microliters per liter per 7 hours
jv/nest	juveniles per nest	ul/L/9 h	microliters per liter per 9 hours
jv/org	juveniles per organism	ul/L/h	microliters per liter per hour
jv/org/wk	juveniles per organisms per week	ul/beat	microliters per beat
k2/d	elimination rate constant 2 per day	ul/beat/kg	microliters per beat per kilogram
kBq	kiloBecquerels	ul/cm2	microliter per square centimeter
kBq/L	kiloBecquerels per liter	ul/d	microliters per day

Code	Definition	Code	Definition
kBq/dm3	kiloBecquerels per cubic decimeter	ul/egg	microliter per egg
kBq/eu	KiloBecquerels per experimental unit	ul/eu	microliters per experimental unit
kBq/kg soil	kiloBecquerels per kilogram soil	ul/g	microliter per gram
kBq/ml	kiloBecquerels per milliliter	ul/g bdwt	microliter per gram body weight
kJ/d/org	kiloJoules per day per organism	ul/g dry soil	microliters per gram dry soil
kJ/kg bdwt	kiloJoules per kilogram body weight	ul/g/d	microliters per gram per day
kJ/kg bdwt/d	kiloJoules per kilogram body weight per day	ul/g/h	microliters per gram per hour
ka/d	elimination rate constant a per day	ul/kg	microliter per kilogram
kcal	kilocalories	ul/kg bdwt	microliter per kilogram body weight
kcal/100g	kilocalories per 100 grams	ul/kg fd	microliters per kilogram food
kcal/d	kilocalories per day	ul/m2	microliters per square meter
kg	kilograms	ul/mg	microliters per milligram
kg conc/d	kilograms of concentrate per day	ul/ml	microliter per milliliter
kg plt/ha	kilograms pellet per hectare	ul/ml fd	microliters per milliliter food
kg silage/d	kilograms of silage per day	ul/org	microliter per organism
kg/0.5 m2	kilograms per 0.5 square meters	ul3	cubic microliters
kg/10 ac	kilograms per 10 acres	ulCO2/50mgTI/10	microliters carbon dioxide per 50 milligrams tissue per 10 minut
kg/100 m2	kilograms per 100 square meters	um	micrometers

Code	Definition	Code	Definition
kg/11 meters	kilograms per 11 meters	um/s	micrometers per second
kg/3.78 L	kilograms per 3.78 liters	um/um2	micrometers per square micrometer
kg/50 m	kilograms per 50 meters	um2	square micrometers
kg/500 m2	kilograms per 500 square meters	um3	cubic micrometers
kg/9.3 m2	kilograms per 9.3 square meters	um3/cell	cubic micrometers per cell
kg/9.9 m2	kilograms per 9.9 square meters	umol	micromoles
kg/L	kilograms per liter	umol C2H4/g/h	micromoles of ethylene produced per gram per hour
kg/ac	kilograms per acre	umol C2H4/org/h	micromoles of ethylene produced per organism per hour
kg/cwt sd	kilograms per hundredweight seed	umol CO2/g ch/s	micromoles carbon dioxide per gram chlorophyll per second
kg/d	kilograms per day	umol CO2/g/s	micromoles CO2 per gram per second
kg/eu	kilograms per experimental unit	umol CO2/m2/s	micromoles CO2 per square meter per second
kg/feddan	kilograms per feddan (1 feddan = 1.038 acres)	umol GH/mgpro/m	micromoles reduced glutathione per milligrams protein per minute
kg/hL	kilograms per hektoliter (hectoliter)	umol HA/mg pro	micromoles hippuric acid per milligram protein
kg/ha	kilograms per hectare	umol NADPH/mg P	micromoles NADPH per milligram protein per minute
kg/ha/yr	kilograms per hectare per year	umol P/g/20 mi	micromol phosphorus per gram per 20 minutes

Code	Definition	Code	Definition
kg/m	kilograms per meter	umol P/g/h	micromoles phosphorus per gram per hour
kg/m2	kilograms per square meter	umol P/mg pro/h	micromoles phosphorus per milligram protein per hour
kg/m3	kilograms per cubic meter	umol Pbg/h/g	micromoles of porphobilinogen per hour per gram tissue
kg/mi2/mo	kilograms per square mile per month	umol Pi/mgp/30m	micromoles Pi per milligram protein per 30 minutes
kg/mm	kilograms per millimeter	umol Pi/mgpro/h	micromoles Pi per milligram protein per hour
kg/mu	kilograms per mu	umol pyv mg p/h	micromoles pyruvate per milligram protein per hour
kg/org	kilograms per organism	umol/100 g	micromoles per 100 grams
kg/org/d	kilograms per organism per day	umol/100 ml	micromoles per 100 milliliters
kg/ton tubers	kilograms per ton of tubers	umol/100g org	micromoles per 100 grams organism
kg/wk	kilograms per week	umol/10g/h	micromoles per 10 grams per hour
kmol/m3	kilomoles per cubic meter	umol/10mg/h	micromoles per 10 milligrams per hour
l/24 h	liters per 24 hours	umol/L	micromoles per liter
l/hl	liters per hectoliter	umol/TI	micromoles per tissue
l/l	liter per liter	umol/cm2	micromoles per square centimeter
l/mi	liter per minute	umol/dl/h	micromoles per decaliter per hour
l/s	liter per second	umol/dm3	micromoles per cubic decimeter
lamellae/axon	lamellae per axon	umol/eu	micromoles per experimental unit

Code	Definition	Code	Definition
layers	layers	umol/g	micromoles per gram
lb	pounds	umol/g LD	micromoles per gram lipid
lb/100 ft2	pounds per 100 square feet	umol/g TI	micromoles per gram tissue
lb/100 gal	pounds per 100 gallons	umol/g TI/h	micromoles per gram tissue per hour
lb/100 gal/acre	pounds per 100 gallons per acre	umol/g ash	micromoles per gram ash
lb/100 lb sd	pounds per 100 pounds seed	umol/g diet	micromoles per gram diet
lb/1000 ft2	pounds per 1000 square feet	umol/g dry wt fd	micromoles per gram dry weight food
lb/1000 ft3	pounds per 1000 cubic feet	umol/g org	micromoles per gram organism
lb/11 gal/acre	pound per 11 gallons per acre	umol/g pro/h	micromoles per gram protein per hour
lb/40 gal	pounds per 40 gallons	umol/g soil	micromoles per gram soil
lb/5 gal/acre	pounds per 5 gallons per acre	umol/g wet wt	micromoles per gram wet weight
lb/90 ft2	pounds per 90 square feet	umol/g/15 mi	micromoles per gram per 15 minutes
lb/ac ft	pounds per acre foot	umol/g/30 mi	micromoles per gram per 30 minutes
lb/acre	pounds per acre	umol/g/h	micromoles per gram per hour
lb/cwt sd	pounds per hundred weight seed	umol/g/mi	micromoles per gram per minute
lb/d	pound per day	umol/h/TI	micromoles per hour per tissue
lb/eu	ponuds per experimental unit	umol/h/g TI	micromoles per hour per gram tissue
lb/ft2	pounds per square feet	umol/h/g pro	micromols per hour per grams protein
lb/ft3	pounds per cubic foot	umol/h/mg TI	micromols per hour per milligram tissue

Code	Definition	Code	Definition
lb/gal	pounds per gallon	umol/h/mg pro	micromoles per hour per milligram protein
lb/gal/acre	pounds per gallon per acre	umol/kg	micromoles per kilogram
lb/org/d	pounds per organism per day	umol/kg bdwt	micromoles per kilogram body weight
lb/plot	pounds per plot	umol/kg dry soil	micromoles per kilogram dry soil
lb/rod2	pounds per square rod	umol/kg egg	micromoles per kilogram egg
lbs ae/ac	pounds acid equivalent per acre	umol/kg media	micromoles per kilogram media
lf prog/lf intl	ratio of live females per live females initial	umol/kg org	micromoles per kilogram organism
lit	litters	umol/kg soil	micromoles per kilogram soil
lit/pr	litters per pair	umol/kg/d	micromoles per kilogram per day
litter %	litter percent	umol/kg/h	micromole per kilogram per hour
lm prog/lm intl	ratio of live males per live males initial	umol/kg/mi	micromoles per kilogram per minute
ln(Wf/Wi)	natural log(mean survivor weight/mean initial weight)	umol/l RBC/mi	micromoles per liter red blood cells per minute
log 10 ug/g org	log 10 micrograms per gram organism	umol/mg pro	micromoles per mg protein
log rel	log relative activity/intensity	umol/mg pro/h	micromoles per mg protein per hour
log s	log time in seconds	umol/mg pro/mi	micromoles per mg protein per minute
log2	log squared	umol/mg/15 mi	micromol per milligram per 15 minutes
log2 titers	log2 titers	umol/mg/h	micromoles per milligram per hour
lprog/lprog itl	ratio of live progeny per live progeny initial	umol/mg/mi	micromoles per milligram per minute

Code	Definition	Code	Definition
m enz act/mg	millienzyme activity per milligram	umol/mgpro/20mi	micromoles per mg protein per 20 minutes
m/m	mass per mass	umol/mgpro/30mi	micromoles per mg protein per 30 minutes
m/s	meters per second	umol/mi	micromoles per minute
m3	cubic meters	umol/mi/g	micromoles per minute per gram
mBq	milliBecquerels	umol/mi/g TI	micromoles per minute per gram of tissue
mBq/ml	milliBecquerels per milliliter	umol/mi/l	micromoles per minute per liter
mCi	milliCuries	umol/mi/mg	micromoles per minute per milligram
mCi mg	milliCuries milligram	umol/mi/mg pro	micromoles per minute per mg protein
mCi/kg	microCurie per kilogram	umol/mi/ml	micromoles per minute per milliliter
mCi/mg	milliCuries per milligram	umol/ml	micromoles per milliliter
mCi/ml	milliCuries per milliliter	umol/ml/h	micromole per milliliter per hour
mCi/mmol	milliCuries per millimoles	umol/ml/mi	micromoles per milliliter per minute
mIU/kg bdwt/h	milliInternational Units per kilogram body weight per hour	umol/mol	micromoles per mole
mIU/kg/h	milliInternational Units per kilogram per hour	umol/mol C	micromoles per mole Carbon
mM	milliMolar (millimoles per liter)	umol/org	micromoles per organism
mM/kg	millimolar per kilogram	umolASCA/mg pro	micromols ascorbic acid per milligram protein
mN	millinormal	umolNH3/1e+6c/h	micromoles NH3 per 1X10+6 cells per hour
mOsm	milliosmoles	umoles/l agar	micromoles per liter agar

Code	Definition	Code	Definition
mOsm/kg	milliosmoles per kilogram	unit/mg pro/mi	enzyme unit per milligram protein per minute
mS/cm	milli Siemens per centimeter	units	units
mU	International milliunits (nmol substrate transformed/min/ml)	units/g diet	units per gram diet
mU/24 h	milliUnits per 24 hours	units/l	units per liter
mU/24 h/kg	milliunit per 24 hours per kilogram	units/mg	units per milligram
mU/d	microunits per day	units/mg pro	units per milligram protein
mU/g	milliUnits per gram organism	units/ml	units per milliliter
mU/mg pro	microUnits per milligram protein	units/ml RBC	units per milliliter red blood cells
mU/ml	milliunit per milliliter	v/v	volume per volume
mU/org	milliunit per organism	wght/lit	weight per litter
		wk	Week

Application Date /Season

Code	Definition	Code	Definition
--	Unspecified	NR	Not Reported
AU	Autumn	SP	Spring
NC	Not Coded	SU	Summer
		WI	Winter

Study Type

Code	Code
--	LITTORAL

Code	Code
ARTIFICIAL	MESOCOSM
CAGE	MICROCOSM
CHANNEL	NC
ENCLOSURE	NR

TERRESTRIAL SOIL PARAMETERS

* denotes value is from the pretreatment media

Media Organic Matter Type and Unit

Media Organic Matter Types

Code	Definition	Code	Definition
--	Unspecified	LOI	Loss on ignition
ASH	Ash free dry mass	N	Nitrogen
C	Carbon	NR	Not reported
C:N	Carbon to nitrogen ratio	OC	Organic carbon
CPOM	Carbon particulate organic matter	OM	Organic matter
Cox	Oxidized carbon	POC	Particulate organic carbon
DOC	Dissolved organic carbon	POM	Particulate organic matter
HUM	Humus	TOC	Total organic carbon
		peat	Peat

Media Organic Matter Units

Code	Definition	Code	Definition
%	Percent	g/kg	Grams per kilogram
LOW	Low	g/kg soil	Grams per kilogram soil
MOD	Moderate	g/m2	Grams per square meter
NR	Not reported	mg/100 g soil	Milligrams per 100 grams soil
RA	Ratio	mg/L	Milligrams per liter
cmol/kg	Centimoles per kilogram soil	mg/g soil	Milligrams per gram soil
g	Grams	mg/kg soil	Milligrams per kilogram soil
g/100g	Grams per 100 grams	ppm	Parts per million
g/dm3	Grams per cubic decimeter	umol/g LIT	Micromoles per gram litter
		umol/kg	Micromoles per kilogram

Media Cation Exchange Capacity Units

Code	Definition	Code	Definition
NC	Not coded	meq mg/g	Milliequivalent milligrams per g
NR	Not reported	meq/100g	Milliequivalents per 100 grams s
cmol P+/kg	Centimoles P+ per kilogram soil	meq/100ml	Milliequivalents per 100 milliliters
cmol+/100 g	Centimoles +ions per 100 grams soil	meq/g	Milliequivalents per gram
cmol+/kg	Centimoles + ions per kilogram s	meq/kg	Milliequivalents per kilogram
cmol/g	Centimoles per gram soil	mmol K+/kg	Millimoles K+ per kilogram soil
cmol/kg	Centimoles per kilogram soil	mmol/100g	Millimoles per 100 grams soil
me/100g	Milliequivalents per 100 grams s	mmol/dm3	Millimoles per cubic decimeter
meq	Milli equivalents	mmol/kg	Millimoles per kilogram soil
meq A/100g	Milliequivalents NH4per 100g	mol/kg	Moles per kilogram
		mval/100g	Millivalue per 100 grams

Result % Dry/Wet Weight

Code	Definition
D	Dry
W	Wet