Stock-book Non E. coli

(removed June 13 1958

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Actinomycetes
Agrobacterium
Pseudomonas
Yeast
Salmonella enterica
Phages

Actinomycetes.

		Ref	Source		
WAc	1	S. griseus (1947)	McCoy	Waksman #4 Rutgers 3496.	R S. sm 25 s/ml, S " 200
	2	879-1	WAc-1	Arginineless (slow ± on minimal)	
	3	879-2	WAc-1	Leucine	no residuum
	4	880-	"		± on minimal
	5	" -6	"	CYSTINE	no residuum
	6	"	"		
	7	"	"		
	8	"	"		
	9	"	"		
	10	S. violaceus	McCoy 12/23/51	Fair growth poor sporn.	
	11	S. olivaceus		good growth, sporulates on minimal, nutrient	
	12	S. gypsoideus		fuzzy colonies, diffusing pigment	
	13	S. rubiginosus	NRRL 12/21/51	B-902	
	14	S. lavendulae	"	B-547	
	15	S. antibioticus	"	B-1115	
	16	S. coelicolor	"	B-1257.	
	17	S. griseocarneus.	"	B-1068	
	18	8807 -	WAc 11		
	19	"	"		
	20	"	"		
	21	Burkholder 8	S. griseus	threnineless B,	
	22	" 16	"	threonine	
	23	" 17	"	methionine	
	24	" 18	"	uracil - arginine	

10·25·54 30 W
10·25·54 31 W
10·25·54 32 W
10·25·54 33 W Streptomyces sp. wild types isolated at Evanston Illinois 1954
10·25·54 34 W
" 35 W
" 36 W
" 37 W WAc-36 golden colored
" 38 W WAc-36 lavender gray colored
" 39 W WAc-34 serine or cystine def. } by u.v.
" 40 W WAc-34 tryptophane def.
WAc 41 W
WAc 42 W
WAc
WAc 44 W
WAc 45 W ex WAc 32 leuc⁻ green S. griseus
WAc 46 W
WAc 48 W
WAc

WAc 51 W
WAc 52 W

WAc 59 W WAc 34 S. griseus Tryp⁻ Purine⁻ (G or A or T or H)

DATE: June 1956 REF:

	1	2	3	4	5	6	7	8	9	10
		1. WAc 74	"	ex WAc 34		arg⁻ purine⁻ protoph			S. griseus	
		2. WAc 86	"	fresh isolate		arg⁻ colorless aspor			S. griseus	
		3. WAc 114	"	ex WAc 16		meth⁻ red aspor			S. coelicolor	
		4. WAc 115	"	ex WAc 16		meth⁻ golden aspor,			S. coelicolor	
		5. WAc 124	"	ex WAc 115		reported as Meth⁻ Hist⁻ blue			S. coelicolor	
		6. WAc 127	"	as Sermonti #5		reported as glut⁻ prol⁻ prototroph			S. coelicolor	
★		7. no WAc number		Sermonti #14					S. coelicolor	
		8. no WAc number		Sermonti #1		wild type			S. coelicolor	
		★ on AMS grows with glut requirement				cyst prol — shows no				

WAc -

DATE: Nov 9 1955 REF: New isolates

	1	2	3	4	5	6	7	8	9	10
		WAc-78	//	dull white	/ yellow - chartreuse			AMS + new isolate		
		WAc-79	//	cream	/ yellow-orange		AMS ± Ps		S. griseus new isolate	
		WAc-80	//	chalk white	/ white		AMS + spiral sporangia		new isolate	
10		WAc-81	//	similar to	WAc-78		new isolate			
		WAc-82	//	similar to	WAc-79		new isolate		S. griseus	
		WAc-83	//	elephant gray new isolate	/ white - gray		elliptical spores 1 X 0.5 μ straight sporangia			
		WAc-84	//	white - bluish	/ chartreuse		spiral sporangia new isolate			
20		WAc-85	//	white - orange - violet new isolate	/ fawn		soluble: wine to brown sporangia wavy			
		WAc-86	//	water green - yellow brown (Bacitracin)R S. griseus	/ cream - tan - brown - purple new isolate		(Phage)S	AMS + (Streptomycin)S		
		WAc-87	//	similar to	WAc-86			new isolate		
30										
40										
50										

Agrobacterium Stocks

DATE: REF:

WCG #	Ref [1]	Source [2]	3 Agent [4]	5	Remarks [6] [7]	8	9	10
	DCS	= A6 : Riker			A. tumefaciens A6, virulent			
	DCS	Riker			A. tumefaciens A6-6, attenuated			
	"	~~Kleinhofer~~ / ~~selection~~			SM ~~streptomycin~~ resistant A6			
4	"	~~Kleinhofer~~	selection		SM ~~streptomycin~~ resistant A6			
5	"	A6-6	selection		SM resistant A6-6			
6	"	A6-6	selection		SM resistant A6-6			
7	"	A6-6	pen. selection		auxotroph			
8	"	A6-6	pen. selection		auxotroph			
9	"	A6	UV		auxotroph			
10	"	"	UV		"			
11	"	"	UV		"			
12	"	"	UV		"			
13	"	"	UV		"			
14	"	"	UV		"			
15	"	"	UV		"			
16 ✓✓	"	A6	UV		Biotin -			
17	Novick S4	~~Novick~~ Klein	S5-6		Tryptophane -		A. tumefaciens	
18	Novick S4	S4			Trp-B -		"	
19	Novick S4	S4			Trp-S -		"	
20	Novick S4				Methionine -		"	
21	Novick S7	S7			Meth - Trp -		"	
22	Novick S7	S7			Meth - B1 -		"	
23	Novick S7	S7			Meth - Adenine -		"	
24	Novick S7	S7			Meth - S -		"	
25	Novick N6	Klein	NAV-1		Tryptophane -		"	
30								
40								
50								

Pseudomonas fluorescens

STOCKS

PF	Ref.	Source	Agency re PFs	Remarks.	
0	A3.12	Stanier		Wild type	
1	761-1	PF 0	UV - Penicillin	Histidine ?	H -
2	761-2	"	"	Isoleucine-Valine	Iv -
3	761-7	"	"	Phenylalanine	Pa -
4	761-9	"	"	TRYPTOPHANE	Tr -
5	761 b	PF 3	Streptomycin ME 14 B	Pa - S^R	Pa - S^R
6	761 b 1	PF 0	uv - penicillin	Leucine	L -
7	" b 4	"	"	Guanine (Hypox +; Adens ±)	Gu -
8	" b 6	"	"	ARGININE	Ar -
9	" b 8	"	"	METHIONINE	M -
10	761-5	PF 0	"	Phenylalanine; leuc+isoleuc+val.	
11	761-14	PF 0	"	~~Ht - B 12 + Y. Nucl. b~~ (Pyr + Cyt)	—
12	—	PF 6	Streptomycin-resistant	Leucine SR	L - S^R
13 ×	—	PF 16	"	A3.16 S^R	
14 ×	—	PF 17	"	A3.17 S^R	
15	= A3.12	Stanier	Formerly PF 0		
16 ×	A3.16		Received from Stanier		
17	A3.17		" " "		
18	"T-1 23"		" " "		
19	870 - 1	PF 12	UV, Penicillin	Leu S^R; Isol. Val	
20	- 2			" TRYPT.	
21	- 3			B-12/Meth " ~~UNIDENTIF. C~~	
22	- 4			" HIST	
23	- 1	PF 9	UV, Penicillin	Meth Isol. Val.	
24	- 2			" TRYPT.	
25	- 3			" HISTIDINE	
26 ~~Ht~~	- 4			" CYSTINE	
27	- 5			~~Isol. Val~~ CYSTINE	
28	- 6			" Guanine	

Yeast cultures.

WY	Ref.	Source	Remarks
1	Pomper 62	(1100)	Prototroph a S. cerevisiae diaspore
2	Pomper 63		" α " flor
3	Pomper 62-20-194	typt, uracil a	" flor
4	Pomper 67-1	methi, aden α	" diaspore
5	Rothman S. fragilis		
6	Rubloo 12/8/53	Red Star (Fresh)	isolated from comm. product
7	" "	Red Star ADY (dry)	" " " "
8	"	WY-6	~~ergtamine~~ ~~acetamine~~ - induced "petite"
9	" 12/17/53	WY 6	ethidium - induced petite
10	" 12/17/53	WY6	ethidium - induced petite
11	" 12/18/53	WY7	ethidium - induced petite
~~12~~	~~" 12/23/53~~	~~WY5~~	~~ethidium - induced petite~~
13	Lindegren 1/13/54	WY3 x WY4	Diploid cross of WY3 x WY4 diasp.
14	TATUM 1/19/54. 99Ra (from Beaume)		Ady (pink)
15	2018a	"	meth
16	2022 α	"	"
17	200a	"	ad3 typ uracil Granular diaspore
18	201a	"	typ uracil diaspore
19	2053 α	"	meth
20	2508 α	"	ad typ diaspore
21	Lindegren 1/21/54	15189 a	g S MA ME MG
22	" "	14854 α	G S MA ME MG poor growth
23	" 2.5.54	12965 α	
24	" 2.5.54	13893 α	
25	Ephrussi 2.10.54	59RT α (Pewitt)	Normal
26	Ephrussi 2.10.54	59RA −	Petite
27	Rubloo 12.2.54	WY1 UV irradiation	Methionine less
28	" 14.2.54	Diploid cross	WY15 x 17 Prototroph
29	" 14.2.54	Diploid cross	WY15 x 18 "
30	" 14.3.54	Petite ex WY15	
31	" 14.3.54	Petite ex WY16	
32	14.3.54	Petite ex WY4	
33	14.3.54	Petite ex WY18	
34	14.3.54	Petite ex WY3	
35	14.3.54	Petite ex WY3	
36	14.3.54	Petite ex WY17	
37	Caroline Raut	50.2 a	
38	"	108.3N α th⁻	Me⁻ Gal⁻
39	"	154 α	ad⁻ Gal⁻ Mal⁻
40	"	168.4 α pa⁻ th⁻	Gal⁻
41	R. R. FOWELL	DCL 536	
42	28/9/54	HM4+	
43	"	HQ5α−	
44	"	HQ10c−	
45	~~Tatum~~. 10/20/54	WY38 - UV.	
46	" "	"	
47	" "	"	
48	" "	"	
49	" "	"	
50	" "	"	
51	" "	"	
52	" "	"	
53	" "	"	
54	" "	"	

"mixed"

5/20/54

Isolated from mixed cult. as received

WY39 = pure culture. OK as recd.

WY.	Ref.		Source		Remarks.
55	~~REW~~	10/30/54	WY38	UV.	Diploid. amino ac. yeast base
56	"	"	"	"	"
57	"	"	"	"	"
58	"	"	"	"	"
59	"	"	"	"	amino ac. yeast base
60	"	"	"	"	"
61	"	"	"	"	" yeast "
62	"	"	"	"	Diploid.
63	"	"	"	"	amino ac. yeast base
64	"	"	"	"	"
65	"	"	"	"	"
66	"	"	"	"	amino ac. yeast base
67	"	"	"	"	"
68	"	"	"	"	"
69	"	"	"	"	"
70	"	"	"	"	"
71	"	"	"	"	"
72	"	"	"	"	NAH yeast "
73	"	"	"	"	amino yeast base
74	"	"	"	"	"
75	"	"	"	"	"
76	"	"	"	"	"
77	"	"	"	"	"
78	L.J. Wickerham.		NRRL Y1822		Diploid H. subpelliculosa.
79	11/1/54	"	Y1683		" " "
80	"	"	Y-1822-12		Mating type " "
81	"	"	Y-1683-11		" " "
82	"	"	Y 1598		Zygosaccharomyces ashbyii
83	"	"	Y 2153		Bisexual diploid H. anomala
84	"	"	Y-366		Unisexual " H. anomala
85	"	"	Y-2153-4		Mating type " "
86	"	"	Y-366-8		" " " "
87	"	"	Y-1134		Saccharomyces lactis
88	"	"	Y-230		" "
89	"	"	Y-1205		Mating type. S. lactis.
90	"	"	Y-1140		" "

Dried as received.

91	REW	2/18/54	WY42	UV. (F-2)	leucine + arginine. R+																	
92	"	"	"	" (F-4)	lysine			R- (5-)														
93	Lindegren.		~~#142-40~~	16068	α	suc	Gal	Malt	Lac	Mel	Raf	Hel	Tryp	H	ur	M	Pi	TA
94	Rec'd 3/1/55	VA REW	16068	16072	a	+	-	+	-	-	-	-	+	-	-	-	+	-
95			~~16072~~	[illegible]	α	-	+	-	-	-	+	+	+	+	+	+	+	+
96			[illegible]	16071	a	-	+	+	-	+	-	-	+	-	-	-	+	-
97	Raut.	2/6/3	Fbr-1	A2														
98	Ephrussi.	B15	B4 (+)		R- Ad- [redacted] substr. R-													
99	7/18/55	53/19	α (+)		S- (Probably S- R- as mating pair)													
100	Dea	53/19	C (+)															
101	Raut.	118-3	N (Normal)		α Pa Ma Th me ga C													
102	12/15/55	108-3	P-2 (petite)		same													
103	"	108-3	P-3 (petite)		same													
104		56-1	P (petite)		α pa Ma? Th Ma? Ga? C													
105		146-1	(segr)		a pa Ma Th C2													
106		145-2	(segr)		a Pa Ma Th C2													
107	"	146-2	(segr)		α Pa ma th? C2													

"good mating pair"

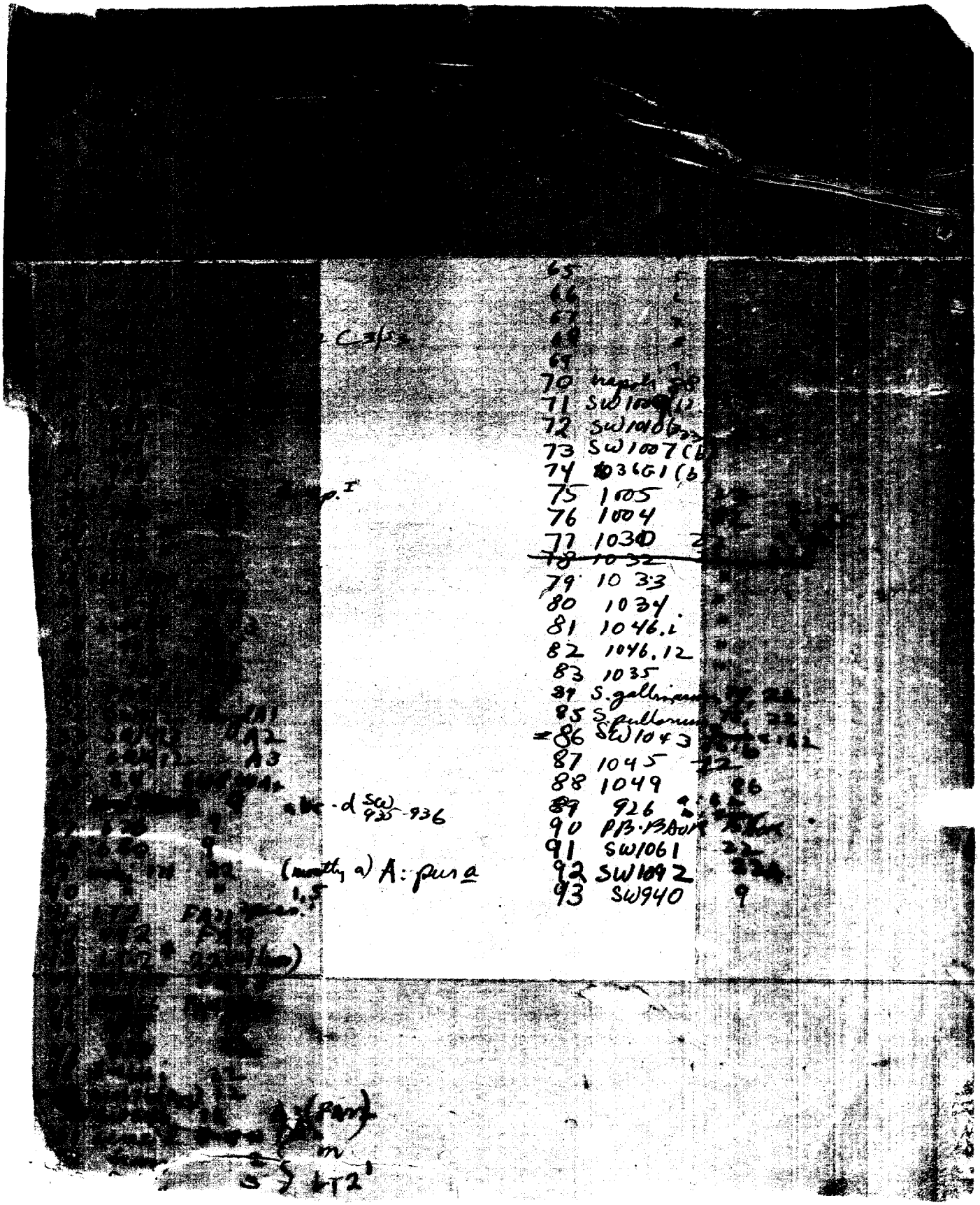
WY	Reference	Source	Remarks.
108 ✓	ROMAN 24/3	4240C – Ephrussi	27d/3Ba. a ad$_2$.
109 ✓	"	4235D – "	" α ad$_2$
110 ✓	REW.	24(a) spore seg. from D16(91×8-16)	Th$^-$ R$^+$S$^+$ Th$^-$ petite.
111 ✓	REW	B4 dip 92×44.	
112 ✓	"	C3 }	
113 ✓	"	C4 }	dips. 26×42. (p 104 notes.)
114 ✓	"	C5 }	
115. ✓	"	8-16	Th$^-$ petite from WY44 – UV.
116 ✓	"	D14	91×8-16 proto selection. } diploid.
117 ✓	"	D16	" " unselected }
118 ✓	"	10-25 – In$^-$?	from WY44 – UV
119. ✓	"	2C (8-16×42)	dip. for test of nature of 8-16 petite.
120	SPIEGELMAN	1/57. WINGE'S STRAIN 55.	G.g$_c$ Mdma D/d " – dip S.c.×Sch. (LOST)
121	"	" " 33-E-26.	" Nist$^-$ g$_c$ a.
122 ✓	R.E.W	91-L. αArg$^-$ L$^+$ R$^+$	– Li resistance (21.2 g/L in GTY) not clonally stable.
123 ✓	"	91-LP3 " " R$^-$ }	
124 ✓	"	91-LP5 " " " }	Geneticin petites from 91-L.
125 ✓	"	91-LP7 " " " }	
126 ✓	"	91-LP9 " " " }	
127 ✓	"	110-Ac3. a Th$_2^-$ Ac$^+$ R$^+$	– actidione resistant (10 mg/L) – clonally stable.
128 ✓	"	110-Ac2 " " " "	
129 ✓	"	110-AP3 " " " R$^-$	– aciflavine petite from WY127.
130 ✓	"	110-P1 a Th$_2^-$ R$^-$	" " " WY110.
131 ✓	"	110-P4. " " "	" " " " .
132 ✓	"	D75.	hybrid WY91×WY44.
133 ✓	"	D79.	" WY92×WY44.
134 ✓	"	124b	a/α Arg$^-$ R$^+$ – Spore seg. from (WY132) (D75). Not stim. by leucine: Diploid sporulates
135 ✓	"	113b	a/α " " " " " Will not sporulate
136 ✓	"	T1	Hybrids 91-L×110 Ac3. } Sporulation +.
137 ✓	"	T6.	" (WY122) "(WY127) }

Sp 3 Spirillum itersoni

SM-6 Baron (May 1960) Serratia marcescens original culture
SM-6-11 —"— —"— S^R high freq. recipient
SM hybrid 6 L^+ —"— S^S lac^+ from cross of ST2 × SM6 → 6 L^+
(= donor now for us)
NB: There is a Serratia in the Colibook too, W 2745

Coli and Salmonella phages.
("~~p~~ - ")

	Source	p.	Host range + characters.				
1	Sewage	225	SY-20	small plaque	K-12 S		
2	"	225	SY-20	small plaque	K-12 S		
3	"	225	SY-21	large plaque, many centers			
4	"		SY-21	large plaque			
5	SY-21	226	SY-36	(S. gallinarum) only.			
6	Sewage		SY-21	minute papillate plaques. SY-21; SY-23.			
7	SY-23	N2. —	SY-21	small plaques (maybe two φ), SY-36.			
8	Sewage	458-2	K-12	large plaque			
9	Sewage	458-20	K-12	small plaque, high titer			
10	Hershey	T16	K-12	small plaque			
11	"	Bordet Small	K-12	wide margins			
12	"	C36	K-12	very wide margins on W811			
13	Luria		K-12	= C36.			
14	Sewage	458-C1	K-12	Lysogenic	v. few revertants on W1297		= λ2?
15	"	" C2	K12				
16	"	" C3	K12				
17	"	" C4	K12				
18	"	" C5	K12				
19	"	481	W518 (λ-) but not W811 (λ+)!				
20	Sewage	499	W518, not W811.				
21	p20	513	Mutant of p20; attacks W811.				
22	Sewage	458a	K-12.				



65
66
67
68
69
70 [illegible] 38
71 SW1007(1)
72 SW1007(2)
73 SW1007(b)
74 1036G1(b)
75 1005
76 1004
77 1030
~~78 1032~~
79 1033
80 1034
81 1046.1
82 1046.12
83 1035
84 S. gallinarum
85 S. pullorum
86 SW1043
87 1045
88 1049
89 926
90 PB-1BAUM
91 SW1061
92 SW1092
93 SW940

C3/S2

d SW 935-936

(methyl a) A: pur a

5 } 4T2

Salmonella typhimurium Stock Cultures

Lilleengen cultures

No.	Representative Used	Other
LT-1	84 = TM1	306
LT-2	85 = TM2	87
LT-3	22	525
LT-4	125	536
LT-5	193	
LT-6a	205	
LT-6b	538	119
LT-7	578	203
LT-8	43	590
LT-9	116	497, 504
LT-10	414	
LT-11	74	82
LT-12	151	114
LT-13	167	331
LT-14	135	199, 11412
LT-15	297	508, 518
LT-16	9	23
LT-18	100	89
LT-19	2	
LT-20	428	
LT-21	192	
LT-22	409	426

Edwards cultures

No.	Details
S-20	Monophasic I
S-21	" II " Edwards 1946.
S-23	Diphasic = Wheeler - Berman 3542.
12.	S.typhimurium var. copenhagen
13.	" "O" form
14.	" phase II

Hershey culture

No.	Details
SW-36	S.typhimurium var. Webster

Boyd cultures

No.	Details
1404	Supposedly non-lysogenic
1411	" " "

Berman cultures

No.	Details
SW-516	Vet. Sci. Mouse colony
SW-517	" " " "

Salmonella Serotypes

Obtained from Edwards--- number refers to station circular # 54
= SW 701 – ~~850~~ 900

1. S. paratyphi A
2. S. paratyphi A var. durazzo
3. S. paratyphi B sulf-tyfosa (lyophil 703A, 703B)
4. S. paratyphi B
6. S. paratyphi B phase II
15. S. stanley
16. S. heidelberg
17. S. chester
18. S. san-diego
21. S. derby
27. S. abortus-ovis
28. S. abortus-bovis
36. S. cholerae-suis var. kunzendorf
50. S. newport
56. S. glostrup
57. S. typhi H 901 W BADS (lyophil #SW757)
59. S. typhi 2V
60. S. typhi Watson V
S. typhi V-E 1
S. typhi V-F 1
~~S. typhi~~
~~S. typhi~~
64. S. enteriditis
67. S. moscow
68. S. haegdam
70. S. eastbourne -
71. S. sendai
~~74.~~ S. gallinarum
75. S. pullorum
76. S. london
87. S. senftenberg
90. S. aberdeen
91. S. poona
92. S. worthington
95. S. hvittingfoss (SW 795)
98. S. kentucky
103. S. abony (lyophil 803A, 803B)
105. S. wichita
119. S. habana
125. S. altendorf
128. S. vejle
129. S. montivideo
134. E. coli-1
137. E. coli-2
139. E. coli-3
140. E. coli-4 (lyophil 840A, 840B)
142. E. coli-5
145. S. kaapstad
148. S. salinatis
162. S. florida
163. S. madelia phase 1

SW 777
SW 778
SW 779
SW 783
SW 786
SW 788
SW 809

12, 13

Salmonella phages

No.	Source	Details
SP-1	Sewage	SY-20 small plaque
SP-2	"	SY-20 small clear plaque
SP-3	"	SY-21 large hazy plaque
SP-4	"	SY-21 large clear plaque
SP-5	SY-21	S.gallinarum
SP-6	Sewage	SY-21; SY-23
SP-7	SY-23	SY-21
SP-49	Rittenberg	S. cholerae-suis
SP-50	"	S. poona
HP-21	Hershey	SW-36 Large plaque
HP-13	"	" Small "
HP-15	"	" Medium "
HP-18	"	" "
HP-20	"	" Hazy small plaque
HP-22	"	" Medium plaque
HP-23	"	" Small "
LP-30	Lilleengen	LT-14 # 135
LP-39	"	LT-13 # 331
LP-36	"	LT-22 # 409
LP-34	"	LT-12 # 111
LP-31	"	LT-4 # 125
LP-33	"	LT-16 # 23
LP-8	"	~~LT-xxx-xx~~ LT-6b #119
LP-32	"	LT-11 # 74
LP-37	"	LT-1 # 306
LP-4	"	LT-3 # 22
LP-2	"	LT-10 # 100
LP-28b	"	LT-5 #193
PLT--	LT--	Any phage obtained from lysogenic members of LT
~~[illegible]~~	~~[illegible]~~	
PLT'	LT	phage from PLT via activation
942-1	Bailey	Bailey's x phage C
942-2	"	" phage A
85P	Uetake	phage from S. orlandia 7452 (SL 1124).
86P	"	" " S. new-brunswick 5411 (SL 1125)
E2-1P	"	" " S. cambridge (SL 1126)
E2-2P	"	" " S. kinshasa (SL 1127).

Salmonella Stocks on Hand 11/9/47

SY
1 para A
23 pullorum
14
15
16
17
18 abortusbovis
22 tymur VV?
23 tymur ✗?
24 abortus equi
25 newport
26 london
28 urbana
30 inverness
31 adelaide
32 montevideo
33 panama
34 para A
36 gallinarum
37 dublin
39 tymur
40 tymur
42 para A
43 enteritidis
46 enteritidis
51 para B
52 para B
53 para B
54 para B
56 cholerae suis
57 typhi suis
58 abortus ovis
61 tymur IV variant Methioninelss.
70 tymur methioninelss
71 typhi suis Bethesda 2943
72 para A S " " 3007
73 sendai " " 3280
74 typhi VW
75 para A
76 para A VV Kauffmann.
77 para A durazzo "
78 typhi 3 "
79 typhi Watson VV " —— BAD?
80 sehdai "
81,2 blegdam "
83 tymur
854 kentucky
115 coli 1
139 anatis
20 } typhimurium 1+2.
21 }

SALMONELLA

SW	Reference	Source	Agent	Mutation	Details
1.	I IV V,i,--	prtotrophic		S-20 monophasic I	Edwards
2.	I IV V,-,1,2,3	"		S-21 " II	"
3.	208	SW-1	U.V.	Histidine	
4.	"	"	"	"	
5.	"	SW-2	"	Yeast Extract	
6.	208	"	"	PAB weak response	
7.	"	SW-2	"	Leucine-iso leucine-valine	
8.	"	"	"	Tryptophane	
9.		"	Spontaneous	Xylose variable (#)	
10.		SW-8	U.V.	Arabinose (-)	
11.	----------				
12.		Sw-10.	Sp6	Sp6R (nutrition uncertain)	
13.	260	SW-7	U.V.	Galactose (-) Sp6S	
14.	NZ 9/1/48 4	SW-1	U.V.PEN	Leucine	
15.	" " 1	"	" "	leucine replaceable by A 12 (CM)	
16.	2 9/14 1	SW-3	" "	(Histidine) Proline	
17.	" B1	SY-23	" "	Histidine	
18.	" B2	"	" "	Leucine	
19.	" B3	"	" "	Methionine	
20.	" B4	"	" "	Cystine or methionine	
21.	" B5	"	" "	" "	
22.	" B6	"	" "	A 12 any	
23.	" B7	"	" "	A 5 not single	
24.	" B1a	SW-17	" "	Lysine # methionine	
25.	" B1b	"	" "	Threonine	
26.	" B1c	"	" "	A 12 (all)	
27.	" B2a	Sw-18	" "	Methionine	
28.	" B2b	"	" "	"	
29.	" B2c	"	" "	Ess. A.A.	
30.	" B2d	"	" "	A 12 (only)	
31.	" B2e	"	" "	"	
32.	" B3a	SW-19	" "	Proline (OH proline)	
33.	" B3b	"	" "	Leucine	
34.	" B3c	"	" "	Proline (OH proline)	
35.	" B3d	"	" "	Histidine	
36.	" B3f	"	" "	Cystine	
37.	Hershey	S. Webster			
38.	NZ B1c	SW-17	" "	A 12 only	
39.	" B9	SY-23	" "	Phenylalanine,tyrosine (both)	
40.	" B11	"	" "	Proline	
41.	" B16	"	" "	Histidine	
42.	" B10	"	" "	Methionine	
43.	" B1d	SW-17	" "	Proline	
44.	" B1e	"	" "	Methionine	
45.	" B2g	SW-18	" "	"	
46.	" B2h	"	" "	"	
47.	" B3g	Sw-19	" "	Proline	
48.	" B3h	"	" "	"	
49.	" B3j	"	" "	Iso-leucine # valine	
50.	Rittenberg	S. cholerae-suis		(requires B1)	
51.	"	S. poona			
52.	NZ 10/19	SW-25	U.V. plates	Maltose (-)	
53.	" "	"	" "	"	
54.	" "	"	" "	"	
55.	" "	"	" "	"	

Salmonella Con't

SW	Reference	Source	Agent	Mutation	Details
56.	NZ 11/2	SW-50	U.V.	PEN.	Cystine
57.	" "	"	"	"	Cystine # methionine
58.	" "	"	"	"	Leucine
59.	" "	"	"	"	Pyrimidine (uracil)
60.	" 11/4	"	"	"	A 12
61.	" "	"	"	"	"
62.	" "	"	"	"	"
63.	" "	"	"	"	"
64.	" "	"	"	"	"
65.	" "	"	"	"	?
66.	" "	"	"	"	?
67.	" 11/5	SW-52	"	plates	Arabinose (-) glucose -
68.	" "	"	"	"	"
69	" "	"	"	"	"
70.	" "	Sw-31	"	"	Galactose (-)
71.	" "	"	"	"	"
72.	" "	"	"	"	"
73.	34R Rittenberg	SW-49			SP 49 R
74.	91 M "	SW-50			Arginine
75.	" 2 "	SW-74			Arginine Purines(NZ xanthine)
76.	Hershey (NZ)	SW-36	Spontaneous		Bl or Ca pnt.
77.	3/14	SW-36(76)	U.V.	PEN	Cystine (BL)
78.	NZ 3/25	"	"	"	Cystine (serine)
79.	" "	"	"	"	" "
80.	" 3/29	"	"	"	" (arginine)
81.	" "	"	"	"	Leucine
82.	" 4/26Y	"	"	layer	"
83.	" "	"	"	"	"
84.	" 4/29	SW-58	U.V.	PEN	Glutamic (proline)
85.	" "	"	"	"	Cystine
86.	" "	"	"	"	Threonine
87.	" 5/16	SW-13	Sp7		Sp7 R (lysogenic) on lactose
88.	" "	"	"		" " "
89.	" "	"	"		" " "
90.	" "	"	"		" " "
91.	" "	"	"		" " "
92.	" "	Sw-75	U.V.	plates	Maltose (-)
93.	" "	"	"	"	Maltose slow
94.	" "	SW-84	"	"	Mannitol slow
95.	" "	"	"	"	" "
96.	" "	"	"	"	" "
97.	" 5/18	SW-50	U.V	PEN	Bl
98	" "	"	"	"	"
99.	" "	"	"	"	"
100.	" "	"	"	"	"?
101.	" 5/23	SW-92	U.V.	plates	Mannitol (-)
102.	" 6/6	SW-87	Autonomous		lysis on dextrose
103.	" "	"	"		" "
104.	" "	SW-2	Sp7		Sp7 R
105	2 "	"	"		"
106.	" "	"	"		"
107.	" "	"	"		"
108.	" "	"	"		
109.	" 6/9	SW-87	Autonomous		lysis on maltose

X = lost
✓ = answer

Salmonella mutants

SW	Source	Agent	Mutation	Preservation
3.	S-20	U.V.	Histidine	
4.	"	"	~~Yeast extract~~ "	
5.	S-21	"	Yeast extract	✓
6.	"	"	pab weak response	
7.	"	"	Leucine, iso-leucine, valine	
8.	"	"	Tryptophane	L
9.	"		Xylose variable spontaneous	
10.	SW-8	"	Arabinose -	
12.	SW-10	SP-6	SP-6R	
13.	SW-7	U.V.	Galactose -	L
14.	SW-1	U.V.Pen.	Leucine	
15.	"	"	" replaceable by CM	X
16.	SW-3	"	Proline	
17.	SY-23	"	Histidine	L
18.	"	"	Leucine	
19.	"	"	Methionine	
20.	"	"	Cystine or methionine	L
21.	"	"	"	
22.	"	"	Am-1	
23.	"	"	Am-5	
24.	SW-17	"	Lysine # methionine	
25.	"	"	Threonine	
26.	SW-18	"	Methionine	
27.	"	"	"	L
28.	"	"	Essential AA	
29.	"	"	Am-1	
30.	"	"	"	
31.	SW-19	"	Proline	
32.	"	"	Leucine	L
33.	"	"	Proline	
34.	"	"	Histidine	L
35.	"	"	Cystine	
36.	Hershey, A.D.		S.typhimurium Webster	X
37.	SW-17	U.V. Pen	Am-1	L
38.	SY-23	"	Phenylalanine # tyrosine	L
39.	"	"	Proline	
40.	"	"	Histidine	
41.	"	"	Methionine	
42.	SW-17	"	Proline	
43.	"	"	Methionine	
44.	SW-18	"	"	L
45.	"	"	"	
46.	SW-19	"	Proline	
47.	"	"	"	X/.
48.	"	"	Iso-leucine # valine	
49.	Rittenberg		S.cholerae-suis (requires B_1)	
50.	"		S.poona	
51.	SW-25	U.V.	Maltose -	
52.	"	"	"	
53.	"	"	"	X.
54.	"	"	"	
55.	"	"	"	

SW	Source	Agent	Mutation	Preservation
56.	SW-50	U.V.Pen	Cystine	
57.	"	"	" # methionine	
58.	"	"	Leucine	
59.	"	"	Uracil	
60.	"	"	Am-1	
61.	"	"	"	
62.	"	"	"	
63.	"	"	"	
64.	"	"	"	
65.	"	"	"	
66.	"	"	"	
67.	SW-52	U.V.	Arabinose -	
68.	"	"	"	
69.	"	"	"	
70.	SW-31	"	Galactose -	
71.	"	"	"	
72.	"	"	"	
73.	SW-49	SP-49	SP-49R	
74.	SW-50	?	Arginine	
75.	SW-74	?	Xanthine	
76.	SW-36	Spontaneous	Thiamine	
77.	"	U.V. Pen	Cystine	
78.	"	"	" or serine	
79.	"	"	" "	
80.	"	"	" or arginine	
81.	"	"	Leucine	
82.	"	"	"	
83.	"	"	"	
84.	SW-58	"	Glutamic (proline)	
85.	"	"	Cystine	
86.	"	"	Threonine	
87.	SW-13	SP-7	SP-7 R (lysogenic)	
88.	"	"	"	
89.	"	"	"	
90.	"	"	"	
91.	"	"	"	
92.	SW-75	U.V.plates	Maltose -	
93.	"	"	Maltose slow	
94.	SW-84	"	Mannitol slow	
95.	"	"	"	
96.	"	"	"	
97.	SW-50	U.V. Pen	Thiamine	
98.	"	"	"	
99.	"	"	"	
100.	"	"	"	
101.	SW-92	U.V.plates	Mannitol -	
102.	SW-87	Autonomous	lysis on dextrose	
103.	"		"	
104.	SW-2	SP-7	SP-7 R	
105.	"	"	"	
106.	"	"	"	
107.	"	"	"	
108.	"	"	"	
109.	SW-87	Autonomous	lysis on maltose	
110.	SY-115	Purification	Prot. lac-	
111.	"	"	Histidine,lac #	

SW	Source	Agent	Mutation	Details	Preservation
112.	SW-111	U.V. Pen	Thiamine		
113.	SW-110	"	Purines		L
114	S.madelia	"	Pantothenate		L
115.	"	"	Am-2		
116.	"	"	Am-1		
117.	"	"	←Pantothenate		L.
118	"	"	Histidine # glycine		L.
119.	"	"	Pantothenate		
120.	"	"	Methionine # lysine		L
121.	"	"	Vitamins		
122.	"	"	Pantothenate		
123.	"	"	Am-2		
124.	"	"	Pantothenate		
125.	"	"	Am-2		
126.	"	"	Yeast extract		
127.	"	"	Hydrolized casein		
128.	"	"	Pantothenate		
129.	"	"	"		
130.	"	"	Yeats extract		
131.	"	"	Am-2		
132.	"	"	Pantothenate		
133.	"	"	"		
134.	SW-113	"	Leucine		X
135.	SW-134	U.V.plates	Maltose -		L.
136.	"	"	"		
137.	SW-118	U.V. Pen	Am-3		L
138.	"	"	Am-2		
139.	SW-131	"	Cystine # iso-leucine #valine		L
140.	"	"	" "		
141.	SW-114	"	Thiamine		
142.	SW-111	"	Leucine		L.
143.	SW-139	U.V.plates	Maltose -		L
144.	SW-141	#	Mannitol -		L
145.	SW-137	Purification	Smooth		
146.	SW-135	U.V.plates	Mannitol -		L
147.	SY-33	U.V. Pen	Purines		L
148.	"	"	HC		X
149.	"	"	Am-1		L
150.	SY-84	"	Vitamins		
151.	SW-140	"	Am-1		
152.	SW-149	"	Am-5		
153.	"	"	Am-3		
154.	"	"	Yeast extract		
155.	SW-78	SM	S^r		L
156.	"	"	"		
157.	SW-81	Azide	Az^r		L
158.	SW-111	reversion	Histidine #		L
159.	E.coli	134	Histidine-,lac #		L
160.	SY-28	U.V.Pen	Methionine		L
161.	"	"	Uracil		L
162.	E.coli X S.coli		prototroph		
163.	SW-160	U.V.Pen	Cystine		L.
164.	"	"	"		
165.	SW-161	"	Thiamine		
166.	"	"	"		X

SW	Source	Agent	Mutation	Preservation
167.	LT-8 (43)	U.V.Pen	Yeast nucleic acid	✗
168.	"	"	Cystine	L
169.	"	"	Phenylalanine	✗
170.	SW-161	"	Isoleucine-valine	L
171.	"	"	Leucine	✗
172.	"	"	Serine	L
173.	"	"	Proline	L
175.	LT-2 (85)	"	Proline	
176. 272	"	"	Methionine	✗ lost
177.	"	"	Leucine	✗ tube OK
178.	"	"	Phenylalanine	L. " "
179.	"	"	Histidine	✗
180.	"	"	Cystine # methionine	✗. " "
181.	"	"	Cystine	✗. " "
182.	"	"	"	
183.	LT-7 (578)	"	Cystine or methionine	L
184.	"	"	Proline	L
185.	"	"	Cystine	L
186.	"	"	Cystine or methionine	L
187.	"	"	Am-1	
188.	"	"	Methionine	✗.
189.	"	"	Cystine	✗.
190.	"	"	Proline	L
191.	"	"	Leucine	L
192	"	"	Glycine	L
193.	"	"	Histidine	L
194.	"	"	?	
195.	SW-163	U.V.plates	Maltose -	L
196.	"	"	"	
197.	LT-4 (125)	U.V. Pen	Cystine or methionine	L
198.	"	"	" "	L
199.	"	"	Cystine	
200.	"	"	"	L
201.	"	"	Purines	L
202.	LT-1 (84)	"	~~Cystine~~ prototrophic 5/14/53.	L
203.	"	"	"	
204.	LT-3 (22)	"	"	L
205.	"	"	"	
206.	LT-5 (193)	"	"	L
207.	"	"	"	
208.	LT-6 (205)	"	"	L
209.	"	"	"	
210.	LT-9 (116)	"	"	L
211.	"	"	"	
212.	SW-171	U.V.plates	Sorbitol slow	
213.	LT-11 (72)	U.V.Pen	Uracil	L
214.	"	"	"	L
215.	LT-12 (111)	"	Phenylalanine	L
216.	"	"	Isoleucine-valine	L
217.	"	"	Leucine	L
218.	LT-10(414)	"	Cystine	L
219.	"	"	"	
220.	LT-14 (135)	"	Phenylalanine	L
221.	"	"	"	
222.	LT-10	"	Lysogenic to LT-10	L
223.	"	"	"	

SW	Source	Agent	Mutation	Preservation
224.	LT-14	U.V. Pen	Phenylalanine	L
225.	"	"	Leucine	L
226.	"	"	"	
227.	"	"	YNA	L
228.	LT-15 (297)	"	Phenylalanine	L
229.	"	"	"	L
230.	LT-13 (331)	"	Leucine	L
231.	"	"	Purines	L
232.	LT-16 (9)	"	Phenylalanine	L
233.	"	"	"	
234.	LT-19 (30)	"	Isoleucine-valine	L
235.	LT-20 (428)	"	Phenylalanine	L
236.	"	"	"	
237.	LT-21 (192)	"	"	L
238.	"	"	Histidine	L
239.	"	"	Isoleucine-valine	L•
240.	LT-22 (409)	"	Phenylalanine # tyrosine	L•
241.	"	"	Threonine	L•
242.	"	"	"	
243.	"	"	Pyrimidine	L
244.	"	"	"	
245.	"	"	Purines	•
246.	"	"	Cystine	L•
247.	"	"	"	
248.	"	"	Leucine	
249.	"	"	"	
250.	LT-3	"	Leucine # YNA	L
251.	LT-15 (297)	"	Leucine	
252.	LT-5	"	Histidine	L
253.	LT-1 (306)	"	Pantothenate	
254.	"	"	Cystine or methionine	L
255.	"	"	Cystine	L
256.	"	"	" "	
257.	"	"	" "	
258.	LT-19 (2)	"	Histidine	L
259.	"	"	Methionine	L
260.	"	"	Cystine	L•
261.	LT-20	"	Cystine	L
262.	SW-238	"	"	L
263.	SW-237	"	Phenylalanine	L
264.	"	"	Cystine	L
265.	"	"	Am-3	L
266.	"	"	Tryptophane	
267.	"	"	Am-1	
268.	SW-246	"	Am-2	L
269.	"	"	Proline	L
270.	"	"	Methionine	L
271.	"	"	"	
272.	SW-261	"	"	L
273.	SW-236	"	Histidine	L
274.	"	"	Proline	L
275.	"	"	Am-1	L
276.	"	"	"	
277.	"	"	"	
278.	"	"	"	

SW	Source	Agent	Mutation	Details	Preservation
279.	SW-240	U.V. Pen	Tryptophane		L
280.	"	"	"		L
281.	"	"	"		L
282.	"	"	"		
283.	SW-251	"	←Purines or histidine ?		L
284.	SW-258	"	HC		L
285.	SW-260	"	Methionine		
286.	"	"	Leucine		
287.	LT-10	U.V.plates	LT-10/ LT-10		
288.	"	"	"		L
289.	"	"	"		
290.	SW-231	U.V. Pen	Isoleucine-valine		L
291.	"	"	"		L
292.	SW-229	"	Tyrosine		L
293.	"	"	HC		L
294.	SW-224	"	Am-5		L
295.	SW-225	"	"		L
296.	"	"	Am-4		L
297.	SW-272 X SW-279	Cross	Prototroph		
298.	"	"	"		
299.	SW-230	U.V. Pen.	Isoleucine-valine		L
300.	SW-184	"	Cystine		L
301.	"	"	Vitamins		L
302.	SW-168	"	Phenylalanine # tyrosine		L
303.	SW-217	"	Yeast extract		L
304.	SW-272	U.V.plates	Maltose -		L
305.	"	"	"		
306.	"	"	"		L
307.	SW-279	"	Galactose -		L
308.	"	"	"		L
309.	"	"	"		
310.	"	"	"		
311.	"	"	"		
312.	E.coli-134	Purification	Adenine		L
313.	LT-20	U.V.Pen	Am-3 triple		L
314.	LT-16	"	"		L
315.	"	"	"		
316.	"	"	"		
317.	LT-11	"	Yeast extract		L
318.	"	"	"		
319.	SW-241	"	Methionine		L
320.	"	"	"		
321.	"	"	Am-1		
322.	SW-243	"	Leucine		L
323.	"	"	Am-1		L
324.	SW-250	"	?		L
325.	SW-204	"	YNA		L
326.	SW-178	"	Yeast extract		
327.	SW-306	Azide	Az R		L
328.	"	"	"		
329.	"	"	"		
330.	SW-307	SM	S^r		L
331.	"	"	"		
332.	"	"	"		

SW	Source	Agent	Mutation	Details	Preservation
333.	SW-306	SM	S^r		
334.	"	"	"		L
335.	SW-307	Azide	Az^r		
336.	"	"	"		L
337.	SW-191	U.V. Pen	Yeast extract		L
338.	"	"	"		
339.	"	"	Purines		L
340.	SW-253	"	Isoleucine-valine	Aut	L
341.	"	"	YNA		L
342.	SW-254	"	Isoleucine-valine		L
343.	"	"	YNA		
344.	SW-197	"	Histidine		L
345.	SW-199	"	Vitamins		L
346.	"	"	Leucine		L
347.	SW-306	U.V. plates	Mannitol -		L
348.	"	"	"		
349.	SW-327	"	"		
350.	"	"	"		
351.	SW-307	"	Xylose -		L
352.	"	"	"		
353.	SW-330	"	"		
354.	"	"	"		L
355.	SW-272	"	Galactose -		L
356.	"	"	"		
357.	SW-279	"	Maltose -		L
358.	"	"	"		
359.	SW-341	"	Galactose -		L
360.	"	"	"		
361.	SW-342	"	Maltose -		L
362.	"	"	"		
363.	SW-286	"	"		L
364.	"	"	"		
365.	SW-284	"	Galactose -		
366.	"	"	"		L
367	SW-306.	U,V. Pen	Isoleucine-valine		L
368.	"	"	HC		L
369.	"	"	Yeast extract		
370.	"	"	Tryptophane		L
371.	"	"	HC		
372.	"	"	Am-2		L
373.	"	"	Tryptophane		L
374.	S.senftenberg	"	Leucine		L
375.	S.tm cop.	"	Am-2		L
376.	"	"	Am-1		L
377.	S. bonar.	"	Am-4		L
378.	S.para B	"	Am-4		L
379.	"	"	Vitamins		L
380.	S.newport	"	"		L
381.	SW-169	"	Cystine		
382.	"	"	"		
383.	SW-240	"	YNA		L
384.	SW-351	"	Histidine		
385.	"	"	"		L
386.	SW-299	U.V. plates	Galactose -		
387.	"	"	"		

SW	Source	Agent	Mutation	Details	Preservation
388.	SW-213	U.V.Pen	Lysine		L
389.	SW-217	"	Am-3 triple		L
390	"	"	"		
391	SW-215	"	Serine or glycine		L
392.	SW-252	"	Lysine		L
393.	"	"	"		
394.	SW-179	"	HC		L
395	LT-11	"	Uracil		L
396.	"	"	"		
397.	LT-9	"	Cystine #isoleucine-valine		L
398	"	"	Cystine		
399.	"	"	"		
400	LT-10	"	Purines		L
401.	"	"	"		
402	LT-16	"	Cystine		L
403.	"	"	Proline		L
404.	"	"	Phenylalanine#tyrosine		L
405.	"	"	"	"	
406.	SW-167	"	HC		L
407.	"	"	"		
408.	LT-130 (306)	"	Guanine		L
409	SW-230	"	Purine		L
410.	LT-1 (306)	"	Cystine		L
411.	SW-410	"	Methionine		L
412.	"	"	HC		L
413.	"	"	Threonine		X
414.	SW-~~176~~ 272	"	Histidine		L
415.	"	"	"		L
416.	SW-17~~8~~	"	HC		L
417.	"	"	Histidine		L
418.	SW-168	"	Tyrosine		L
419.	"	"	"		
420.	SW-406	"	Am-1		L
421.	"	"	"		
422.	SW-408	"	"		L
423	"	"	"		
424.	SW-402	"	Purines		L
425.	SW-228	"	"		X
426	SW-216	"	Guanine		L
427.	LT-18 (100)	"	Leucine		L
428.	"	"	Cystine		L
429.	"	"	"		
430.	SW-427	"	Proline		L
431.	"	"	"		L
432.	SW-428	"	Am-2		X
433.	SW-219	"	YNA		L
434.	SW-252	"	Methionine # lysine		
435.	SW-351	SM (500u)	S^r		L
436	"	"	"		L
437.	SW-397	"	"		L
438.	"	"	"		

SW	Source	Agent	Mutation	Details	Preservation
439.	SW-414	Mixed with SW-435	Lysogenic		
440.	"	"	"		
441.	"	"	"		L
442.	"	"	"		L
443.	SW-435	U.V.plates	Maltose -		L
444.	"	"	"		
445.	"	"	"		
446.	SW-240	U.V. Pen	Cystine		L
447.	"	"	"		
448.	"	"	"		
449.	"	"	Methionine		L
450.	"	"	"		
451.	"	"	"		
452.	"	"	Arginine		L
453	"	"	"		
454.	"	"	"		
455.	"	"	Isoleucine-valine		L
456.	"	"	Leucine		L
457.	"	"	"		
458.	"	"	Histidine		L
459.	"	"	Threonine		
460.	"	"	Proline		L
461.	"	"	"		
462.	"	"	Histidine		L
463.	"	"	"		
464.	"	"	"		
465.	"	"	YNA		
466.	"	"	Purines		L
467.	"	"	HC # YNA		L
468.	"	"	Cystine # Isoleucine-valine		L
469.	LT-11	"	Aspartic		L
470.	SW-206	"	Purine		L
471.	SW-204	"	Yeast extract		
472.	"	"	?		L
473.	SW-250	"	Am-4		
474.	SW-250	"	Proline		L
475.	SW-435	"	Mannitol -		
476	"	"	"	(maltose-)	L
477.	"	"	"		L
478.	"	"	"		
479.	SW-476	Reversion	Maltose # mannitol-		L
480.	"	"	"		
481.	SW-184	U.V. plates	Galactose -		L
482	"	"	"		L
483.	"	"	"		L
484.	"	"	"		L
485.	LT-7	"	"		L
486.	"	"	"		L
492.	SW-188	"	"		L
493.	"	"	"		L
494.	"	"	"		L
495.	"	"	"		L

SW	Source	Agent	Mutation	Details	Preservation
503.	SW-191	U.V. plates	Galactose -		L
504.	"	"	"		L
505.	"	"	"		
506.	"	"	"		L
513.	LT-7	SM	S^r		L
514.	"	"	"		L
515.	SW-503	"	"		L
516.	D.T.B.	Mouse colony	S.typhimurium		
517.	"	"	"		
518.	SY-79	LT-2FA	X i		
519.	"	"	i		
520.	"	LT-7FA	"		
521.	"	"	"		
522	"	"	"		
523.	"	"	"		
524.	"	"	"		
525.	"	"	"		
526.	"	"	"		
527.	"	"	"		
528.	"	"	"		
529.	"	"	"		
530.	"	SW-8FA	i		
531	"	"	"		
532.	"	LT-2FA	Rhamnose # X		L
533.	S. para B #3 filed with serotypes = SW703				L
534.	~~SW-533~~	Boulg phage C	non-motile	"para B" not	detailed in notes probably SW546
535.	S stanley # 15	~~as SW-533~~ see SW715			
536.	SW-535	Boulg phage C	non-motile		
537.	S. typhi H901	Boulgakoff			
538.	SW-537	Boulg phage C	non-motile		
539.	S. typhi #383 Boulg ~~rough~~				
540.	S. tyhphi	Boulg	rough		
541.	S. typhimurium v. copenhagen	"O"	F.K. 223	-O-1810	
542.	S. typhi	O901	F.K. 58		
543.	S. para B "O"	F.K. 248	O 19		
544.	S. typhimurium "O"	F.K. 13	FK 3173		
545.	"	4937/50	Edwards		
546.	S. para B phase II	N-25	"	157 see 942	
547.	S. typhimurium phase II	191	"		
548.	Group B	2294/49	"O"	" (tymus)	
549.	"	117/51	"	" (tymus)	
550.	Group C 1	3012/49	"	"	
551.	Group C 2	4608/50	"	"	
552.	Group D	1524/51	"	" paratyphi dublin	
553	"	1520/51	"	"	
554.	Group E 1	3226/50	"	"	
555.	S. typhi	T2 Almon and Stovall	"		
556.	S. typhi	O901 Felix	"		
557.	S. typhi	2V	"		
558	S. gallinarum	30953	"		
~~559~~					

SW	Ref/	Source			
551	Edwards	4608-50	C-2 non-motile		
552	"	1524-51	D nm	rough	
553	"	1520-51	D nm		S. dublin
554	"	3226-50	E-1 nm		
555	"	S. typhi T2 Almon&Stovall		XII_2-	
556	"	S. typhi)0-901			
557	"	S. typhi 2 (Felix Vi:E1)			
558	"	S. gallinarum 30953 (stable smooth)			
559					
560					
561					
562					
563		LT-2 —x SW553			gp:-
564					
565		SY-79(x- 714?)			j?
566		"			j?
567		SW548 x- LT-2			i:1,2
568		SW549 x- LT-2			i:1,2
569		SW537 x- LT-2		IX XII	i:-
570		"			"
571					
572					
573	Leifson	R20 1/2	S. typhimurium nm		(O)
574	"	R20 1/4	"		
575	"	R7 3/5	"	~~paralyzed~~	i: not good!
576	"	R7 2/4	"	normal	
577	"	FM 57.66	"	90% curly	
578	"	FM 61.63	"	paralyzed	i
579	"	FM 60.62	"	normal	
580	FM	FM 59.64	"	paralyzed	
581					
582					
583					
584	541	SW541	EMB Gal; UV		Gal-
585					
586	Leifson	R12	S, typhimirium paralyzed		
587	"	R14 1/2	"7	"	
588	BADS 32	SW534	Selection on mot. agar		—:1,2
589					
590					
591					
592					
593					
594					
595	Desranleau	S. typhi Vi type	A		
596	"	"			
597	"		C	Aϕ	
598	"		C2		
599	"		E4		
600	"	0-901			

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609 543 sc mot. ag. selection b:-
610
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616
617
618 SW543sc x— LT2 b:-
619 SW592 Gi phage O mutant (from slow rev.)
620 SW593 Chi phage O mutant
621 SW594 " "
622 SW588 " "
623 SW543sc x— LT2 i:-
624
625 " i:-
626 " i:-
627
628 " i:-
629 Seligmann 1908 "x-phase" [Edwards says sluggish i:1,2] S. typhimurium
630 " S, newington 2922 Lac+
631
632
633 SW543sc x- SW588 1,2:-
—650

651

652

653 SW541 x- 593[544 2-step rev.]1,2 slow 1,2

654 SW653 sel. mot. agar fast np

655 SW580 " slow

656 SW586 " slow

657 WK Thomson S. typhi Vi: E1 (tryptophane)

658 " " 2-1-4 cystine

659 " " S59 v "

660 " " 47-87B "

661 " " 38-29B "

662 970A2 SW543sc x— 553 IV V XII gp:-

663

664 970A8 " x— S. sandiego SW 718 eh:-

665 SW541 EMB Xyl; UV Xyl-

666 SW543sc EMB Gal; UV Gal-

667 971C2 S. typhi H901 x— SW553 IX XII gp:-

668 971C8 " x— SW718 eh:-

669 " " "

670 971C7 " x— S. abony SW803 " b:-

671 974-1 SW666x— LT7 (PLT7) IV V XII i:-

672 971B7 SW435 x- abony SW803 IV V XII b:1,2

673 966F2 SW543 spont. on mot ag. b:-

674 971B2 SW435 x- 553 see also 136E IV V XII gp:[gp]1,2

675 971D3 SW666[x- S. altendorf SW825] in b serum z33:-

676 SW673 / b serum z33:-

677 971D7B SW666 x- abony, SW803 b:- (wk)

678 971D7B1 SW677 / b serum z33:-

679 971D6 SW666 x- S. enteritidis SW 764 IV V XII gm:-

680 971D22 SW666 x- LT2 i:-

681 971D22 " " b:-

682 974D3 SW673x- 623 i:-

683 971D5 SW666 x- S. heidelberg SW 716 r:-

684 973B1A SW666 x- LT2 Gal+/- unstable transduction

685 974C2 SW618 x- SW623 i:-

686 974C3 SW618 x- LT2 i:- 22+

687 971C5 H901 x- S. heidelberg IX XII r:-

688 SW912 (Boyd 1404) rough variant

689 A. J. Weil Shigella 66-1-410 II (inducer)

690 " " 79-30-2 V

691 " " 66-1-1268 II (inducer)

692 " " 63-143-D19 XII

693 " " 63-143-V I (inducer)

694 Kauffmann & Schmid 339 S. paratyphi A, durazzo, XII_2 (not I)

695 974C6 SW609 x- 623 i:-

696 974D5b SW623 x— SW666 b:-

697 i " " i:-

698 979B LT2 x- abony enx enx:i 22+

699 979A " x- abony b b:1,2 22+

700 979 b SW666 x- SW588 b:-

701-900. NOTE: These numbers correspond to Edwards Ky. Bull. 54, Nos. 1- (164)-200, respectively.

SW	Ref				
901		SW666 x-- SW588		IV V XII 1,2:--	
902	971e3	S. typhi H901 x-- S. altendorf SW825		IX XII c:--	
903	974DD5b	SW666 x-- SW623		i:--	22^s
904	W. Hirsch 2859		S. paratyphi B		
905	" 1415(1)		paralysed	b:1,2	
906	" 1415(2)		"	b: 1,2	
907	" 2859-0		non-motile		
908	SW666 rough	22^r	stable susp	from aged broth	"VR"
909	" "	"	autoaggl.		R
910	" "	"	"		VR
911	Boyd TM 1404		TM indicator		
912	" TM 1411		TM indicator		
913	" 068		lysogenic...		
914	" 29929				
915	" 822				
916	" 026				
917	" 1404/B2				
918	" 073				
919	" 020				
920	" 080				
921	" 1404/A1				
922	" 041	(indicator for SW912)			
923	979G1	S. abony x-- TM2		IV V XII i:enx	22^r
924	989A1	S. sendai x-- S. abony		IX XII a:enx	22^s
925	991H3	SW546 x-- S. abony(2)		IV V XII 1,2:enx	22^s
926	986 E1	TM2 + P22 lysogenic			
927	E2	SW666 + P22B "			
928	986 D2		"Lp^V"		
929	989 E1	S. typhi H901 x-- SW588		IX XII 1,2:---	
930	97304(1B)	SW618 x-- TM2		i:-- (2-step)	22^s
931	979K2	S. abony x-- TM2		IV V XII b:1,2	22^s
932	991L1	SW926 x-- TM2 (1)		i:enx	22^s
933	991F1	TM2 (1) --x SW546		IV V XII i:--	22^s
934	974e3b1	TM2 --x SW618		i:--	22^s
935	4	" "		i:--	22^s
936	991H1	S. abony --x SW546		b:--	
937	992A7	SW546 --x abony		1,2:enx	22^s
938	991G1	SW618 --x SW546		b:--	22^r
939	971D39	S. sendai (SW771) --x SW666		a:--	22^s
940	979J-	TM2 --x abony		i:enx	22^s
941	Edwards N25	S. paratyphi B, java, parent of SW857 (546)			
942	979L1	TM2 --x SW932 (abony x--TM2)		i:12	22^+
943	999-16	SW 609 + P22B (FA21)	Gal+ H^b Fla^+	lysogenic	IIVXII b:—
944	1000-A4	SW588 --x SW942		1,2:--	
945	Dienes	S. typhimurium "3"			
946	"	Proteus 52			
947	Stocker SL13 = Sal 25/52		S. paratyphi A O form		I XII 2
948	" SL14 26/52		" "		
949	-"- SW414		UV, EMB	TM2 Gal- M- H-	[v.h.t.]
950					

SW	Ref.	Source	Agency	Remarks.
951	1010	SW414	UV EMB	Mal- (slow)
952	1010	SW950	"	Gal- Mal- (sl)
953				
954	101601	TM2	Felix O-phage	O1-immune
955		SW950	P22	lysogenic
956		SW948	Felix O phage	O1-immune
957	Felix	S. typhi	O-901 #1	
958	1020 D1	SW961	selected in ~~xxxxxxxxx~~ paraA 15 serum	O:--
959	1024 Edwards	"Hines VAH"	IV V XII ( ):1,2	
960	1024	Edwards	5594-51 " & 1,2 (phagetype paraB)	:1,10
961	1020A	Edwards	S. cholerae suis-kunzendorf 6145/52	(c):1,5
962	1024	"	B Nonmotile 1568-51	--(i:12)
963			4936-50	"
964			4937-50	"
965			? Zelly-50	i:--
966			3010-49	b:12
967			D Nonmotile 1521-51 (Guatemala: ef SW553)	gp
968		"	" 1522 "	gp
969		"	1525 "	gp
970			" 3821-51	(gm)
971			5465-52	gm
972			" 1553-52 (Kauffmann)	(gm)
973	1023M	SW857 x--X	S. miami	IX XII 1,2:1,5
974	1023J	S. zega --x	SW891	d:1,2
975	1023D	S, sendai --x	SW933	IV V XII a:enx
976	1023K	SW 959 /1,2		l....
977	1023K	S. zega --x	SW959	no reaction.
978	1023L	S. zega --x	SW960	d:12
979	Edwards	732-49	S. javiana	IX XII Lz_{28}:1,5
980	1028N1	SW979 x--	abony(2)	lz28:enx 22s
981	979K16	(--x)abony	/b:enx	IV V XII z33:enx 22r
982	SW972 --x	SW666		gm:-
983	SW970 --x	SW666		gm:-
984	SW979 --x	SW666		lz28:--
985	SW726 (abortus-equi) --x	SW666	1026F	a:--
986	1026G2	SW726 --x	SW950	IV V XII (zenx):enx (sic) 22r
987	1031E	S. zega --x	SW666	IV V XII d:--
988	99102	SW546 /1,2	inagg.	induced phase 1,10 ?
989	Stocker	8L15	TM O-form Fla7⁻	IV XII TM O
990	1028D1	TM2 --x	SW980	IX XII i:enx 22r
991	102701	TM2 --x	SW553	IX XII i:--
992	1031 Ko	SW959/ 1,2.		(bz33...)
993	102702	TM2--x	SW967	gp:--
994	1026-0	SW726 (abortus-equi) --x	SW960	a:12
995	1031K3	S. abony(2) --x	SW959	IV V XII (enx):enx
996	1028F2	SW980 x~~0~~	SW703(1) (paratyphi B)	22r
997	1031 B	Edwards	3550-51 S. paratyphi B monophasic	b:--(z33)
998	1026T	S. sendai(2) --x	SW726	IX (X) XII--:1,5 a:1,5
999	1023S	S. zega --x	SW959	--:z6 (:1,5,z6,..$\frac{2}{2}$)
1000	1026V	SW 959 --x	SW726	—:1,2

no switch

DATE: REF:

	1	2	3	4	5	6	7	8	9	10
	SW	Ref	Source	Agency				Remarks		
	1001	1026W	SW 726	x--SW703(II)				1,2:--		
	1002	1026D	Sw726	x--(FA18 LT2^2)				a:enx diphasie (rough		
	1003	1026E	SW726	x-- (FA22 LT22)				IV, V, XII! a:enx diphasi		
	1004	Edwards	S. Miami 6500-51					IX XII	a:1,5	
	1005	1025	SW803 (abony) b:enx 5 days plate				IV, V, II		z33:enx	
	1006	1036A	Edwards 7-119 para b non sp monoph				- almost nonmotile			
	1007	1036B	N97 " S. paratyphi b java							
10	1008	1036C	N97 (3)	S. paratyphi b java			non sp			
	10091036B1		SW1007	b serum					1,2:bz33	
	1010	1023G		S abony (x--)			IV, V, XII		cf SW981	z33:enx/ 22[1]
	1011		SW1004	x--FA10 b			IX, XII		b:1,5	
	1012	1023G	"	x--FA3 c			IX, XII		c:1,5	
	1013	1023G	"	x--FA54 d			"		d:1,5	
	1014	"	"	x--FA8 eh			"		eh:1,5	
	1015	"	"	x--FA22 i			"		i:1,5	
	1016	"	"	x--FA60 gp			"		gp:1,5	
	1017	"	"	x--FA50 1z28			"		1z28:1,5	
20	1018	"	"	x--FA5 r			"		r:1,5	
	1019	"	"	x--FA18 1,2			"		a:1,2	
	1020	"	"	x--FA71 1,2 (SW1009)			"		1,2:15	
	1021	"	"	x--FA3B 1,7			"		1:a	
	1022	"	"	x--FA15c enx			"		enx:a	
	1023	"	"	x--FA54 z6			"		a:1,5	
	1024	--	S. abony	x--S. zega					d:enx	22^R
	1025	--	TM SW950	x-- SW1010			IV, V, XII		z33:1,2	
	1026	1036E1	SW1009	x--FA12			IV, V, XII		i:b sic.	
	1027	1036G1b	TM2	x--(SW1009b; FA74)					b:1,2	
30	1028	1038B	SW1004	x-- SW1007 (FA73)					b:1,5	
	1029		SW1004	x--SW726					--:enx	
	1030	1038E1	SW1007	x--FA22					i:b	22^s
	1031	1038F2	SW1026i	X--FA40 (Sendai ph 1)			IV, V, Xii		a:b	
	1032	Edwards 2479-50		S. pullorum Mal+ XII2						
	1033	"				S abortus-equi	Meyer		enx:	
	1034	"				S abortus-equi	MC		a:	
	1035	"				"			NH2 a:	
	1036	1025	SW703	b:1,2			IV, V, XII		z33:1,2	
	1037	Zinder SR-8	SW558							S^R
40	1038	1044C5	SW1004	x-- S abony			IX, XII		b:1,5	10^R
	1039		S typhi H901	x-- SW666			IX, XII		b:--	
	1040		"	" x-- S sendai			"		a:--	
	1041	1043A1	SW1040	X-- S gallinarum SW774					gm	
	1042	1042			S abortus equi		41-D-1			
	1043	Edwards N97b							b1,2	
	1044	1044-C5-7	SW1004	x--S abony					b:1,5	PLT10s
	1045	1033-4	SW967	x--SW666					gm Fla+	22^s
	1046	Stocker:	SL46				TM binns	NCTC 73		
	1047	104551	SW694	x--SW944			I, II		b:--	
50	1048	1045 (1033G2-2)	SW948	x--Track, SW			No XII$_2$	no I		
	1049	1046c1.2	SW1043	x--TM					i:1,2	Lp^R
	1050	1023G.	SW1022	x-- S altendorf			IX, XII		c:enx	

DATE: REF:

	1	2	3	4	5	6	7	8	9	10
	SW	Ref	Source	Agency			Remarks			
	1051	1046K1	1042B2.2(N971022)	x-- S abony					1,2:enx Lp^r	
	1052	1049A	SW1031	x--S altendorf		a:b	IV, V, XII		c:b	
	1053	1049B2	SW1031	x-- "		a:b	"		c:a	
	1054	1051G1	SW1053	x-- Sabony (enx)		a:c	"		a:enx	
	1055	1051H1	SW1053	x-- S abony (enx)		a:c	"		c:enx bovis	
	1056	1052M	Moran (Ky)	"S abortus equi" 1966					enx:b abortus/	
	1057	1051R2	TM	TM-SW1055			IV, V, XII		c:1,2	
	1058	1052B	Edwards	Peru 818						
10	1059	1050	SW1022	x-- Type 1 S abortus equi			D		b:enx	
	1060	Edwards	302-50	S cholerae-suis kunzendorf (Susc Beccles, Tauton, p)						
	1061	"	TM2	Monophasic derivative.			stable ph2		53-2034 COC	
	1062	Spicer	14/45				S paratyphi C NM 3/10/52			
	1063	Pre 3011-49					C1 NM			
	1064	2963-51					C_1 NM			
	1065	2692-49					C_1 NM			
	1066	5993-50					C_1 NM			
	1067	2806-51					C_2 NM			
	1068	4608-50					C_2 NM			
20	1069	4609-50					C_2 NM			
	1070	232-52					I, XII, XXIII			
	1071	4519-52					E_1			
	1072	2715-49					B (I, IV, V, XII)		i:1,2 see 107 1	
	1073	1071A3-1	SW666 x-K	S typhi A					d; -	
	1074	NCTC 73		TM "binns" = B6			McNee, France 1917		=SW1046	
	1075	Stecker	5710	"			IV, V			
	1076	"	5711	"			I, IV, V			
	1077	"	5712	"			IV			
	1078	"	5713	"			I, IV			
30	1079	"	5715	"			IV V			
	1080	"	4787	" "binns"						
	1081	"	6817	"			IV, V, XII			
	1082	"	SL 100 .	T 35/52			Le Minor and Grabar S typhi 0			
	1083	"	101 .	T1/53			Roschka		"	
	1084	"	102 .	T39/52			Moser		"	
	1085	"	103 .	A205BL	S para A	LeMinor	H		"	
	1086	"	104 .	A205IR	S para A	LeMinor	paral			
	1087	"	105 .	A205IM	"	"	0			
	1088	"	106 .	A205J	"	"	H weak			
40	1089	"	SL 43	SW573 x--SW548			H, paralysed			
	1090	"	J. T. Sal	1231/52			III, X 0			
	1091	"	SL 18				IV, V, XII TM-0		2a see SW989	
	1092	"	SL28				IV, V, XII (a:1,5)		S heidelberg 0	
	1093	"	SL55				TM-0			
	1094	"	SL54				TM-0			
	1095	"	SL51				IV, V, XII (b:1,2)			
	1096	1073A-0	H901/d						j	
	1097	1073A1		S gallinarum 74 0-x H901					gm	
	1098	Anderson					S newport puerto rico			
50	1099	"					S fayed			
	1100	"					S cholerae-suis 1348			

Date	S.W.	Ref.	Source + Remarks.	
1/10/54	1101	AS 41	Manchester 56488/52 TH – 'O'	22^5
1/10/54	1102	AS 41	Manchester 29718/53 TH – 'O'	22^1
4/11/54	1103	AS 6/1/[illegible]c	F.A.22 – × S. wien (CDC 281) → IV. XII : i : l.w.	
5/7/54	1104	AS 6/1/[illegible]	F.A.39 – × S. dar es salaam (SL 771) → I. IX. XII : a : $ex\ z_{18}$	
5/11/54	1105	AS 6/1/[illegible]	F.A.39 – × S. wien (CDC 281) → IV. XII : a : l.w.	
7/28/54	1106	Edwards	[redacted] #849/53	D NH
"	1107	"	4950/53	D NH
"	1108	Uetake	76 – S. london 1446 (ex 776).	
"	1109	"	77 – S. civa 316	
"	1110	"	78 – S. donatum 293	
"	1111	"	81 – S. amagi 2399	
"	1112	"	82 – S. zanzibar 5628	
"	1113	"	83 – S. shanghai 5630	
"	1114	"	F1-1 S. bukuvu	
"	1115	"	E1-2 S. vejle	
"	1116	"	F1-3 S. allegridei	
"	1117	"	E1-4 S. elizabethville	
"	1118	"	E1-5 S. senj	
"	1119	"	E1-6 S. wellcome	
"	1120	"	E1-7 S. orion	
"	1121	"	E1-8 S. lexington	
"	1122	"	E1-9 S. macallen	
"	1123	"	84 S. newington C2	
"	1124	"	85 S. holandia 7482	
"	1125	"	86 S. new-brunswick 5411	
"	1126	"	[redacted] E2-1 S. cambridge	
"	1127	"	E2-2 S. kinshasa	
"	1128	"	E2-3 S. canoga	
"	1129	"	E2-4 S. illinois	
"	1130	"	K-12 S. thomasville	
	1131	1071 C8	K → × SW 1072 → i+, ② H ⑤+	
7/28/54	1132	Edwards	(CDC 268) S. ball	
"	1133	"	(" 281) S. wien	
"	1134	"	(" 290) S. virginia	
"	1135	"	(" 317) S. zaza	
"	1136	"	(" 208) S. shoreditch	
"	1137	"	(" 229) S. paratyphi A duncan (XII$_2$).	
2/12/55	1138	JL	SW 967 gal –	
"	1139	JL	SW 967 gal –	
2/13	1140	Edwards	55-207 S. typhi Paralyzed	
4/13	1141	"	212 S. manschani (original) XXXV : m.t: –	
"	1142	"	325 S. alachua (original) XXXV : 24.Z_{23} : –	
"	1143	"	170 S. adelaide (original) XXXV : f.g: –	
"	1144	"	390 S. spp. (J. Taylor) XXXV : [redacted] a: –	
"	1145	"	2288/57 S. adelaide (W.S.SH.D.) XXXV : f.g: –	
"	1146	"	994/54 S. alachua (Cal SHD) XXXV : 24.Z_{23} : –	
"	1147	"	1003/53 S. alachua (Cal SHD) XXXV : Z_4.Z_{23} : –	
"	1148	"	1287/54 S. alachua (J. Taylor) XXXV : Z_4.Z_{23} : –	
"	1149	"	2212/53 S. alachua (Yale SHD) XXV : Z_4.Z_{23} : –	
"	1150	"	1017/54 S. spp. (Cal SHD). XXXV : m.m.	
5/17	1151	Edwards.	S. virginia (VIII): d: –	

	SW				
11/8/55	1151 Edwards	S. virginia			
	1152	S. typhimurium	"H_2S-"	PKE	
1/18/56	1153 T.I.-50	TM2	U.V.	Fla⁻	
"	1154 " "	"	"	"	
"	1155 " "	"	"	"	
"	1156 " "	"	"	"	
"	1157 T.I.-52	"	"	"	
1/24/56	1158 Edwards	Col 529-55		4,12 : r(i)-l.w.	
9/24/56	1159 T.I. 9/27/56	Sw 726 × TM2		w : ~~emk~~ monophasic PLT22⁵	
	1160 T.I. 9/10/56	Sw 1061 × Sw 1092		T(i) : 1.2 monophasic	
"	1161 T.I. 9/10/56	Sw 1061 × Sw 803		- : b monophasic	
"	1162 T.I 6/6/56	Sw 1161 × TM2		i : b	22+
6/10/57	1163 from Taylor	S. africana		4,12 : r(i)-lw.	
	1164 Edwards	S. para B. monophasic b 4259-50			
	1165 Edwards	monophasic 5222-51. stable i phase.			
	1166 Edwards	192-53, S. Typhimurium monophasic i			
	1167 "	5249-52, "	"	"	
	1168 "	6065-50, "	"	"	
	1169 "	2802-51 "	"	"	
	1170 "	1370-52 "	"	"	
	1171 "	1385-51 S. paratyphi B. monophasic b			
	1172 "	3514-50 "		"	
	1173 "	5088-50 "		"	
	1174 "	2324-50 "		"	
	1175 "	5586-50 "		"	
	1176 "	5317-50 "		"	
5/20/57	1177 "	1339-56 Vt.		4,5,12 : 1.2 mono	
"	1178 "	1573-53 Wash		4,5,12 : i mono	
"	1179 "	4398-55 Alaska		4,5,12 : i mono	
"	1180 "	3855-55 Rhode Island		4,5,12 : i mono	
"	1181 "	1673-54 Minn		4,5,12 : i mono	
"	1182 "	1996-56 Oregon		4,5,12 : i mono	
"	1183 "	120-54 Oregon		4,5,12 : i mono	
"	1184 "	331-57 La		4,5,12 : i mono	
"	1185 "	4987-53	Gp D	n motile	
"	1186 "	5455-54 Fla	Gp B	n motile	
"	1187 "	1467-55 Canada	S. dublin, mucoid	nm	
"	1188 "	2394-55 Col.	Gp B.	n motile	n.m = non motile
"	1189 "	1251-55 Del	Gp B (4,12)	n motile	
"	1190 "	4122-55	Gp B	nm	
"	1191 "	5042-55 Wash	Gp B	nm	
"	1192 "	431-56 Va.	Gp B	nm	
"	1193 "	327-57 Ind. (prob. S. para B)	Gp B	nm	
"	1194 "	1259-57 Colo.	Gp B	nm	
"	1195 "	2026-52 Iowa		4,5,12 : eh mono.	
"	1196 "	3092-55 Texas		4,12 : eh mono.	
"	1197 "	4332-55 Texas		9,12 : l z28	
"	1198 "	3793-55 Ga		9,12 : l z28	
"	1199 "	4303-56 Ariz		9,12 : l z28	
"	1200 "	4480-53 Ala		9,12 : l z28	
"	1201 "	3593-55 Ga		9,12 : l z28.	
"	1202 "	4814-55 Ga		9,12 : l z28.	
	1203	F/A C 473 b monophasic (obtained from C.D.C. Ft Collins)			
	2047	Va Wilkerson b monophasic (" " ")			

Date	SW	Ref.	Source and Remarks	
5/20/57	1201	Edwards	3593-55 Ga.	9, 12. l, Z_{23}
"	1202	"	4914-55 Ga.	9, 12, l, Z_{23}
"	1203	"	Fla C 1483, b monophasic	(obtained from C.D.C. Feb. 1953).
"	1204	"	Va Wilkerson, b monophasic	(" ").
9/10/57	1205	"	2495-57 (Calif)	non motile group B Tartrate⁻.
"	1206	"	2571-57 (Minn)	" " Tartrate⁻.
"	1207	"	2475-57	9, 12, $9 \rightleftarrows 16$ $\frac{Z_{18}}{\text{anti ser}}$: 1, 5, 7.
11/23/57	1208	T.I. 11/23/57	Sw 803 b: ser × Sw 1159	$\frac{\text{anti ser}}{\text{ser}}$ → i: (ser) monophasic
11/24/57	1209	T.I. 11/24/57	Sw 1061 acriflavin,	weak motile − : 1.2
"	1210	T.I. 10/21/57	Sw 629 × Sw 1092	(T): 1.2 ($Ah_1^- H_1^+ H_2^{1,2}$)
3/4/58	1211		FREDERICO SA 118	S. bareilly chicken Ch⁺
"	1212		" SA 211	S. TM mouse Ch⁺
3/24/58	1213	T.I.	TM2 PLT22^S + FA (TM2:1.2) → PLT22^R	
9.15.58	1214	Baron	S. TM ETS9-S^R	Fertile with coli H_2.
9.26.58	1232	"	" ETS9-S^S	
	1233	" 951-2	W1214 UV	Arg Leu Pro Ur
	1215	EML	SW 1214 spont.	Ara⁻
	1216	"	" Inf. p22 single plaque.	(p22)
	1217		UV: SW1214 UV: B gal.	Ara⁻ Gal⁻^{m} (1)
	1218			(2)
	1219			(3)
	1220			(4)
	1221			(5)
	1222			(6)
	1223		SW1214 UV Barab	Ara⁻ (11)
	1224			(12)
	1225			(13)
	1226			(14)
	1227			(15)
	1228			16)
	1229			(17)
	1230		SW1224 UV Bgal	Gal⁻ (4)
	1231	EML	SW 1224 "	" (5) st
8/10	1234		SW1231 spont. (penic)	Arg (Ara⁻ Gal⁻ Mal^s) S^R
	1235		SW 1234 "	Ser (Arg⁻ " " " S^R
	1236		SW 1234 UV: mal	Mal⁻ (Arg⁻ Ser⁻ Gal⁻ Ara⁻ S^R)
	1237		SW 1215 spont.	Arg⁻ Ser⁻ [Gal⁺ Ara⁻ S^R Mal(?)]
	1238		SW 1236 UV: mal	Mal⁺
	1239	WINICOV	SW 1214 protocol - penicillin	Val⁻
	1240	EM4	SW 1237 (83) UV: gal	Gal⁻ st. (Arg Ser Ara S^R)
	1241	" 34A4	1237 × W1895 hybridg.	Lac⁺ p22y^S proto: $T5^S$ $1a^R$ Gal⁻ S^R Ara⁺
	1242	" 32 A15	× W3057	M⁻ S^S/S^R Lac⁻ Ara⁻
	1243	32 B30	"	≠ SW1237 except Gal⁻ reversed?
	1244	" Bd	"	≠ SW 1237 except M⁻
	1245	" AC	"	super + S^S Lp^+ 1_2^R p22v^R proto ≠ 1895 M⁺
	1246	"	SW 1245 UV: gal	Gal⁻ # 1
11/12-12/18	1247	WINICOV #1	SW1214 penicillin + UV	Prot
	1248	" #2	"	M
	1249	" #3	"	Cyst
	1250	" #5	"	Tyro

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SW 1251–
SS 1300

19 59

REF:

	1 date	2 SW-	3 Ref	4 Source	5 Agent	6	7 Mutation → Characteristics	8	9	10
1	11/24	1251	EML.	SW1236	UV: xyl		Xyl- #1	(Arg Ser Lac Gel Ara Mal Sm)		
2		1252			"		" #2			
3		1253			"		" #3			
4		1254	" 40.4.2	W1895×SW1241	recomb. Mgal		Gal+ proto	(sugar+ p22v^S λ_2^R S^S ♂)		
5		1255	"	SW1241	UV: lac		Lac- #1	(Gal- Lac- S^R λ_2^R p22v^S)		
6		1256	"		"		" #2			
7		1257	"	SW1246	"		Lac- {A			
8		1258	"	"	"		" {B			
9		1259	WINICOV	SW1250	penicillin		T (Tyro)			
0		1260	"	SW1259	UV - gal		Gal-	(T Tyro Lac- S^R)		
		1261	"	SW1259	penicillin arab		Arab-	(Pro" Lac" S^R)		
1		1262	"	SW1247	penicillin		Arab- λ_2	(Pro- Lac- S^R)		
2		1263	EML W	SW1262	UV: arab		Ara-	(Pro Lac S^R)		
3		1264	EML	SW1263	" gal		Gal- #5	(" " " Ara)		
4		1265	"	"	" "		#6	" "		
5		1266	"	"	" "		#7	"		
6		1267	"	SW1237	" "		#1			
7		1268	"	"			2			
8		1269	"	"			3			
9		1270	"	SW1254	penicillin ampo		4 prec: 2	♂: p22v^S λ_2^R S^S mod.		
0		1271		↓	"		B33	mts? Gal-^{m}		
		1272			"		13			
1		1273			"		17			
2		1274			"		20			
3		1275			"		36			
4		1276			"		5			
5		1277	EML	SW1246	"		P (Gal- Lac-)			
6		1278	"	SW1263	UV: gal		Gal- #3			
7		1279	"	"			#2			
8		1280	Atkinson	SW1270	× enp SW803		enp: i (p22)$^+$			
9		1281	"	SW1240	"		" "	(Arg Ser Gal Lac Ara S^R)		
0		1282	EML	SW1281	UV: xyl		Xyl- (tm 4 Flrs)	(" " " " " p22$^+$ enp: i)		
		1283		"						
1		1284		"						
2		1285								
3		1286		"			Xyl- (sm 4 Flrs).			
4		1287	Atkinson	SW1281	× i					
5		1288	EML	SW1282	UV: expt 1 rham		Rham- → 1			
6		1289	"	"	" expt 2 "		" #4			
7		1290	"	SW1253	"		" #1	(Arg Ser Lac Gal Ara Mal Xyl S^R)		
8		1291	"	SW1265	" xyl		Xyl-	(P Asp^t Ara Gal Lac S^R)		
9		1292	"	SW1291	" rham		Rham-	(" " Xyl$^+$)		
0	3/30	1293	"	SW1284	" "		"	(Arg Ser " " " " p22$^+$ enp: 1.2)		
	3/6-3/3	1294	Atkinson	SW1238	× b via p22(SW803)		1B	b: 1,2 p22$^+$ (Arg Ser Mal$^+$ Ara S^R Lac$^-$		
1		1295		SW1253	"		10	(" " " " Gal Xyl " ")		
2		1296		SW1260	"		11	" (Tyr T Gal		
3		1297		SW1264	"		12	" (P Asp Ara Gal)		
4		1298		SW1272	"		15	" (♂: sugar+ ampo T$_5^S$ S^m)		
5	5/10	1300	EML 293 29	SW1215+W6	recomb. w. F$^+$ E.coli (B10)		Lac+ p22v^S prot. (Gal-^{m}; Ara$^+$: F from b & 2.ch)			
6										
7										
8										
9										
0										

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S1301-1350

1959

REF:

	1 date	S #	3 Ref	4 Source	5 Agent	6	7 Mutation & Characteristics	8	9	10
1	5/10	✓1301	ZML 59529	W6 × SW1215	recomb. w. F+ ♂		Lac+ prov^{S} proto : donated		F to coli	# 6
2		✓1302	"				Ara + Gal-^{m}.			"
3		✓1303	"							14
4		✓1304	"							18
5	6/22	✓1305	"	SW 1263	UV : B xyl		Xyl^{-} #9 (sectr)			
6		✓1306	"	"			#3 (pinkish; huge			
7		✓1307	"	"			#4.			
8		✓1308	"	"			5			
9		✓1309	"	"			6			
0		✓1310	"	"			8.			
	6/23	✓1311	"	SW 1305	UV: B rham		Rhm^{-} (sectr) #1.			
1	6/26	✓1312	"	S. 1300	penicillin		#18. tryp		(F+ donor; Gal-Lac+prov^{S}	
2		✓1313	"		"		#51 glyc(or se)	W6	S^{R} Ara+)	
3		✓1314	"		"		#67 Cyst	SW1215		
4	"	✓1315	"		"		#70. ~~Ara~~ ~~ara~~ i L+V			
5	7/1	✓1316	"	S 1312	"		#18.2 tryp + threo			
6		✓1317	"	S. 1314	"		67.1 cyst + ~~arg~~ lyc.			
7		✓1318	"	S 1312			18.1 C+M (Tdy)			
8		✓1319	"	S 1314			67.2 Thr (C)			
9		✓1320	"	"			67.3 Arg (C)			
0		✓1321	"	"			67.8 LV (C)			
		✓1322	"	S 1312			18.12 LV (Tdy)		Gal-^{m}	
1	7/24	1323	SW	1313			51.6 T (94)			
2		✓1324	"	"			51.~~9~~ P (")			
3		✓1325	"	"			51.2 Ara L (")			
4		1326					18. P (Thr)			
5		1327							Gal+	
6		1328						HIST		
7		1329							Gal +	
8		1330								
9	7/25	1331		SW 1259	Inf. F8 W3520		F8		Lac+	
0		1332		SW 1311	"		"		"	
		1333		SW 1320	"		"		"	
1		1334		"	"		"		"	
2		1335		"	"		"		"	
3		✓1336		SW 1259	Inf. F13 W3747		F+/3 Lac +			
4		1337		SW 1262						
5	9/6/59	✓1338	Nossal	Salmonella adelaide (cf. Nossal + Ledeberg 1958)						
6	10/26/59	✓1339	Baron	ST-2 × LT-2			F'			
7	11/ /59	✓1340	H. Wall	SW 350	SM		S^{R} H^{-} M^{-} Lgal^{-}			
8	11/13/59	✓1341	"	SW 803	SM		S^{R}			
9	11/13/59	✓1342	"	TM 2 (85)	SM		S^{R}			
0	11/13/59	✓1343	"	SW 685 × W3747 F13		Lac+ rel.	Lac^{+V} F13 i			
	11/30/59	✓1344	"	SW 180	SM		S^{R} C^{-} M^{-}			
1	2/18/60	✓1345	"	SW685 × SW1339		Lac+ rel.	Lac+ i			
2	4/28/60	✓1346	"	TM2(85) × W3747		Lac+ rel.	Lac^{V} F13			
3		✓1347	"	SW1340 × SW1346		Lac+ rel.	Lac^{V} F13 (Gal^{-} H^{-} M^{-} S^{R})			
4		✓1348	"	SW1340 × SW1352		Lac+ rel.	Lac^{V} F13 (Gal^{-} H^{-} M^{-} S^{R})			
5		✓1349	"	TM2(85) × SW1367			F+ "pink"			
6		✓1350	"	SW 803 reisolation F-		~~white~~	~~F~~ F^{-} "white"			

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SW 1351-1400

19 60

REF:

	1 date	2 SW	Ref. 3	4 Source	5 Agent	6	7 Mutation & Characteristics 8 9 10
1	4/28/60	1351	H Mäkelä	SW 1350 ×	SW 1362		F+ "pink"
2		1352	"	SW 803 ×	W 3747	Lac+ sel.	Lac+ F13
3		1353	"	SW 1341	reisol. white col.		F- white (SR)
4		1354	"	SW 1341	reisol. pink col.		F+ pink (SR)
5		1355	"	SW 1341	UV, penic. sel; white		P- F- white (SR)
6		1356	"	SW 1341	UV, penic. sel. for pink col.		F+ pink (P- SR)
7		1357	"	SW 1355	UV, penic.		Arg- (P- SR white)
8		1358	"	SW 1357 ×	SW 1357		F+ pink (P- Arg- SR)
9		1359	"	SW 1357 ×	SW 1352	Lac+ sel.	Lac+ F13 (P- Arg- SR)
0		1360	"	SW 1357	UV, penic.		H- (P- Arg- SR white)
		1361	"	SW 1341	UV, penic, sel for m		M- (F- white SR)
1		1362	"	SW 1341	UV, penic, sel. for p		F+ pink (M- SR)
2		1363	"	SW 1361	UV, penic.		Aromatic A-acids (M- SR F- white)
3		1364	"	SW 1363 ×	SW 1357		F+ pink (M- Arom- SR)
4		1365	"	SW 1363 ×	SW 1352	Lac+ sel	Lac+ F13 (M- Arom- SR)
5		1366	"	SW 1350	UV, penic.		H- (F- white)
6		1367	"	SW 1366 ×	W 4772	proto sel.	F' lac for H (proto+, pink)
7		1368	"	SW 1340	single col. isolate		best female strain with SW 1346, 1352
8		1369	"	SW 1340	—" —		peculiar in regard to F13 infectio
9		1370	"	SW 1369 ×	SW 1346	Lac+ sel.	Lac+ F13 (Gal- H- M- SR)
0		1371	"	SW 1369 ×	SW 1346	Lac+ sel.	Lac+ F13 (— " —)
		1372	"	SW 1259 ×	W 3747	Lac+ sel.	Lac+ F13 (T Tyro SR, Thg)
1		1373	"	SW 803	UV, penicillin		L (F- white)
2		1374	"	SW 803	UV "		Gly or Ser (F- white)
3		1375	"	SW 803	UV "		Ser (F- white)
4		1376	"	SW 1355	UV "		Isoleucine- (P- SR F- white)
5		1377	"	SW 1355	UV "		M- (P- SR F- white)
6		1378	"	SW 1361	UV "		P- (M- SR F- white)
7		1379	"	TM2 (85)	UV, Xyl		Xyl-
8		1380	"	SW 1379	UV, penicillin		P- (Xyl-)
9		1381	"	SW 1379	" "		M- (Xyl-)
0		1382	"	SW 1344	" "		H- (no other requirements, SR)
		1383	"	SW 1382	" "		T- (H- SR)
1		1384	"	SW 1382	" "		C- (H- SR)
2		1385	"	SW 1344	" "		M- (no other requirements, SR)
3		1386	"	SW 1344	" "		Uracil-
4		1387	"	SW 1340 ×	SW 1339	Lac+ sel	Lac+ F' (Gal- H- M- SR)
5		1388	"	SW 334 ×	SW 1339	Lac+ sel.	Lac+ F' (Gal- M- SR)
6		1389	"	SW 1379	UV, penicillin		Pantothenic acid- (Xyl-)
7		1390	"	SW 685	Sm		SR
8	6/8/60	1391	"	SW 1364	UV		Hfr high for L, P (M- Arom- SR)
9		1392	"	SW 1366	Sm		SR (H- white)
0		1393	"	SW 1339 ×	SW 1363		Lac+ F' (M- Arom- SR)
		1394	F. Dishon	(letter 25/5, 1960)			No. 5 S. java 4, 5, 12 : b : — (female to W3267)
1		1395	"	(— " —)			No. 189 S. miami 1, 9, 12 : a : 1, 5 (— " —)
2	7/7/60	1396	H Mäkelä	SW 803	infected from W6		F+
3		1397	"	SW 1355	UV pen.		H- (P- SR)
4		1398	"	SW 803	infected from SW 1364		F+
5		1399	"	SW 1360	UV mal		Mal- (P- Arg- H- SR)
6		1400	"	SW 1366 ×	W 4878 sel. for H+		proto, apparently also F+
7							
8							
9							
0							

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	1 date	2 SW #	3 Rec	4 Source	5 Agent	6	7 Mutation	8 & Characteristics	9	10
1	7/7/60	1401	H. Makela	SW 779	Sm		S^R also white			
2		1402 ✓	"	SW 1401	inf. from SW 1364		F^+ (S^R, pink)			
3		1403 ✓	"	SW 1364	UV,		Hfr high for H (M^- Arg$^-$ S^R)			
4		1404 ✓	"	SW 1399	UV, Bac		Ara$^-$ (Mal$^-$ P^- Arg$^-$ H$^-$ S^R)			
5	9/30/60	1405 ✓	"	SW 1373	Sm		S^R (L^-)			
6		1406 ✓	"	SW 1355	UV, pen		yeast extract (P^- S^R)			
7		1407 ✓	"	SW 1396	UV, selection for Hfr		Hfr for Indenin, Histidin, infections			
8		1408 ✓	"	SW 1398	— " —		— " —			— " —
9		1409 ✓	"	SW 1357 × SW 1391 on DO + Arg			P^+ (Arg$^-$ S^R)			
0		1410 ✓	"	SW 1376 × SW 1391 on DO + I			P^+ (Isoleucin$^-$ S^R)			
		1411 ✓	"	SW 1406 × SW 1391 on DO + YE			P^+ (yeast extract$^-$ S^R)			
1		1412 ✓	"	SW 1392 × P22/SW 943			i : env (H$^-$ S^R)			
2		1413 ✓	"	SW 1412 × P22/SW 943			i : 1.2 (H$^-$ S^R)			
3		1414 ✓	"	SW 1355	UV, penicillin		L^- (P^- S^R) $P22^R$			
4		1415	"	SW 1355	— " —		M^- (P^- S^R)			
5		1416 ✓	"	SW 1355	— " —		yeast extract (P^- S^R)			
6		1417 ✓	"	SW 1404 × 1391 on DO			proto (Mal$^-$ Ara$^-$ S^R)			
7		1418 ✓	"	SW 1356	selection for Hfr		Hfr high for M, infectious			
8		1419 ✓	"	SW 1404 × 1399 on Bac Sm			Lac$^+$ Bac^{Sm} P^+ (mal$^-$ ara$^-$ S^R P^- Arg$^-$ H$^-$)			
9		1420 ✓	O Makela	American Type Cult. Coll. 6392			Salm. typ. exotype beta 9,12 : gt : -			
0		1421 ✓	H Makela	SW 1403	mobility selection		F^- Hfr — (M$^-$ Arg$^-$ S^R)			
		1422 ✓	"	SW 1421 infected from 1398			F^+ Hfr " (— " —)			
1		1423 ✓	"	SW 1355	— " —		F^+ (P$^-$ S^R)			
2		1424 ✓	"	# SW 1413 × SW 1391, sel. for H^+			x^+ — : 1.2 monophasic "9"			
3		1425 ✓	"	— " —						" 20"
4		1426 ✓	"	— " —						" 16"
5		1427 ✓	"	— " —						" 14"
6		1428 ✓	"	— " —						" 11"
7		1429 ✓	"	# W 3462 × SW 1391, sel. for H^+,			x^+ [redacted] / b : —		partly rough	
8		1430 ✓	"			2	[redacted] H_2 : —		"	— " —
9		1431 ✓	"			3	OK 100+ H_2 : —			
0		1432 ✓	"			4	[redacted] b : —		partly rough	
		1433 ✓	"			5	[redacted] b : —		— " —	
1		1434 ✓	"			6	[redacted] H_2 : —		— " —	
2		1435 ✓	"			7	[redacted] H_2 : —		— " —	
3		1436 ✓	"	# 3462 × SW 1391 sel. for H		5	[redacted] H_2 : —		— " —	
4		1437 ✓	"	SW 1436, selection NGA + antis. H_2			not aggl. in H_2 serum			
5		1438 ✓	"	# 3462 × SW 1391, sel. for H		12	CDC+ H_2 : —			
6		1439 ✓	"	SW 1438, sel. NGA + antis. H_2			not aggl. in H_2 serum			
7	12/27/60	1440 ✓	"	SW 1355	UV, penicillin		Trypt$^-$ (P^- S^R)			
8		1441 ✓	"	SW 1355	— " —		H$^-$ (P^- S^R)			
9		1442 ✓	"	SW 1404	UV		Xyl$^-$ (Mal$^-$ [redacted] Ara$^-$ S^R P^- Arg$^-$ x$^-$			
0		1443 ✓		SW 1398	UV		Mal$^-$ (F^+)			
		1444 ✓	"	SW 1391	Hfr reisolation after NGA		Hfr			
1		1445 ✓	"	SW 1361	UV, pen		Yeast extract S^R			
2		1446 ✓	"	SW 1398	UV, sel. for Hfr		Hfr high for Arg M, H			
3		1447 ✓	"	— " —			— " —			
4		1448 ✓	"	— " —			— " —			
5		1449 ✓	"	— " —			— " —			
6		1450 ✓	"	— " —			— " —			
7		1451	"	— " —						
8		1452	"	— " —			Hfr high for "Specific" Proteins			
9		1453	"	— " —			— " — Toxin			
0		1454	"	— " —			Hfr for His, Gal			

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C	1 date	2 Lyph! SW#	Ref 3	Source 4	Agent 5	6	Mutation & Characteristics 7 8 9 10
12/27/60 1	12/27/60	✓1451 ✓	H. Nakaki	SW 1398	UV, Hfr rel.		Hfr high for Arg-His (xc carA)
2		✓1452 ✓	—"—	—"—	—"—		Hfr high for YE, Pro —"—
3		✓1453 ✓	—"—	—"—	—"—		" " YE —"—
4		✓1454 ✓	—"—	—"—	—"—		" " His, Gal.. —"—
5		✓1455 ✓	—"—	—"—	—"—		—"— —"—
6		✓1456 ✓	"	—"—	—"—		—"— —"—
7		✓1457 ✓	"	—"—	—"—		Hfr high for His, Arom. ... —"—
8		✓1458 ✓	"	—"—	—"—		—"— —"—
9		✓1459 ✓	"	—"—	—"—		—"— —"—
0		✓1460 ✓	"	—"—	—"—		—"— —"—
		✓1461 ✓	"	—"—	—"—		—"— —"—
1		✓1462 ✓	"	—"—	—"—		—"— —"—
2		✓1463 ✓	"	SW 943	inf. from SW 1364		F+ (S.S i: 1.2 zinc rough)
3		✓1464 ✓	"	SW 1413	UV		Gal- (His- i: 1.2 SR
4		✓1465	"	"	"		Mal- (—"— —"—)
5		✓1466 ✓	"	"	"		Mtl- (—"— —"—)
6		✓1467 ✓	"	SW 1466	"		Mal- (Mtl- His- SR i: 1.2)
7		✓1468 ✓	"	SW 1248	"		Mal- (M- SR ; TMG)
8		✓1469 ✓	"	SW 1355	× A22 (SW 943)		i (P- SR
9		✓1470 ✓	"	SW 1376	"		i (P- Inol-) SR
0		✓1471 ✓	"	SW 1377	"		i (P- M-) SR
		✓1472 ✓	"	SW 1378	"		i (M- P-) SR
1		✓1473 ✓	"	SW 1397	"		i (P- H-) SR
2		✓1474 ✓	"	SW 1441	"		1.2 (P- H-) SR
3		✓1475 ✓	"	SW 943	UV		Mal- (i: 1.2)
4		✓1476 ✓	"	SW 1444	NG A selection		F-, F resistant
5		✓1477 ✓	"	SW 1448	—"—		F- Hfr
6		✓1478 ✓	"	SW 1452	—"—		F- Hfr
7		✓1479 ✓	"	SW 1462	—"—		F- Hfr
8		✓1480 ✓	"	1477 inf. from	SW 1364		Hfr like SW 1448
9		✓1481 ✓	"	SW 1478	—"—		—"— SW 1452
0		✓1482 ✓	"	SW 1479	—"—		—"— SW 1462
		✓1483 ✓	"	SW 1001	UV, Sm selection		SR (1.2: —) (S. aboutas 4 gm ml)
1		✓1484 ✓	"	—"—	—"—		—"— —"—
2		✓1485 ✓	"	SW 803	inf. from	SW 3747	F_{13}^+ Lac^v
3		✓1486 ✓	"	"	—"—	SW 1305	F_{13} strep$^+$ Lac^v
4		✓1487 ✓	"	"	× SW 1419		Lac$^+$ Hfr Baron$^+$
5		✓1488 ✓	"	SW 1034	UV, Sm		SR (d: —) (S. aboutas 4 gm ml)
6		✓1489 ✓	"	SW 1353	smont.		Pla — (SR)
7		✓1490 ✓	"	SW 1473 ×	1403, P+ rel.		Arom- P+ His- i: ens SR)
8		✓1491 ✓	"		—"—		—"—
9		✓1492 ✓	"		—"—		Arom- P+ His+ (i: ens SR)
0		✓1493 ✓	"	SW 1442	× SW 1463		P- Arg- ; poor mating, Acrifl-Hfr - SR
		✓1494 ✓					
1		✓1495 ✓	STOCKER	LISTER	—		LT2 wild-type
2		✓1496 ✓	"	FUKASAWA & NIKAIDO's (LT2-M1)			LT2 gal-sensitive (epiM-)
3		✓1497 ✓	"	LISTER M10			LT2 ade-7 proA46 H,-M10 fla- SR
4		✓1498 ✓	"	" M10 gal-sens			M10 gal-sensitive
5		✓1499 ✓	NOSSAL	Edwards S. habana (O: 1,13,23; H: 9, -)			
6		✓1500 ✓	"	" S. morehead (O: 30 ; H: i, 15)			
7							
8							
9							
0							

MICROBIAL GENETICS

SW 501-510

19 61

REF:

	Date	ID # SW	Ref	Source	Agent	Mutation & Chars.
1	7-19.	✓1501✓	Reda Browne, AS.		S. Hvitting Foss	16: b-enx
2		✓1502✓	(Engel + Nossal)		S. Horsham	(1) 6,14,25: b-enx
3		✓1503✓	"		S. minnesota	21: b-enx
4		✓1504✓	"		S. urbana	30: b-enx
5		✓1505✓	Engel from Roantree	NCTC 5722	S. muenchen	6,8: 1,2-d
6		✓1506✓	Engel from B. Stocker	NCTC 5721	S Derby	1,4,12: fg,
7		✓1507✓	"	BAL 2212-59	S Derby	4,12: fg
8		✓1508✓	"		S. Derby	1,4,12 fg
9	III/19/71	1509	B. Ames	TA 1530		his- gal- biotin- Val15- clindamin-
10	"	1510	"	TA 1531		" " " " "
	"	1511	"	TA 1532		" " " " "
1	"	1512	"	TA 1724 (pattl.) or 1534		" "
2	III/2/71	1513	S Godfrey (Godfrey)	SL 1676		lys- R8 gal- epi-
3		1514				
4	IV/24/71	LT-2	"	big colony		Wild
5		1515 "	"	small colony		"
6	X/2/72	1516 "	"	SL 1670		Fus or Fals1 + Fals2, Nal R, P22 mi-
7	"	1517 LT7	"	SL 3613		Pro A B Cur E
8	X/10/72	SW1518	"	EL 199		Met AE typ ilva (leaky) his-
9						res mod+ P, arac- xyl- str r
10						gal- epi- (H1 Q Hz long)
						(Fals2- Fals1 + or VV)
1	X/16/72	SW1519	"	SL1027	✓	Sm R, mut- typ-, P22 sens
2	I/12/73	SW1520	"	TA 1659	✓	LT2 gal (chl, bio, rmB) Δ
3	"	SW1521	"	SL 1694		= TA 1659 (F'8 gal+)
4	I/29/73	SW1522	Ukeinick	Pro C90	✓	Proline
5	"	SW1523	"	ST Thy 57 ($P22C_2^{29}$)	25✓	lysogen ST Thy-57 ($P22C_2^{29}$)
6	I/28/73	SW1524	S Stocker	SL N81		SB14, fla, str, xyl, rm S11, rfa F-
7	V/1/73	SW1525	"	SL1542		LT2 his (left) Δ-519
8	"	SW1526	"	SL1667		LT2 his (left) Δ-520
9	"	SW1527	"	TA1674		LT2 gal (uvr, rec, bio, chl, rmB) Δ
10	"	1528	"	TA 1701		his-C 3076 (gal, bio, chl, rec, rmB) Δ
	"	1529	"	TA 1656		(rec 9, gal, bio, chl, rmB) Δ
1	"	1530	"	SL1102		fla, str, xyl (lisp) rfa E-
2	"	1531	"	SL 3759		Arg E 116
3	"	1532	"	TA 1657		chl, bio, gal, rmB
4	"	1533	"	TA 1701		his+
5	"	1534	"	SL1746		LT2 met Eyg gal E160 epi- leaky
6	"	1535	"	SL1751		SL1746 (F'8 gal+)
7	"	1536	"	SL1747		LT2 met E 97 gal E161 epi- leaky
8	"	1537	"	SL1752		SL1747 (F' gal+)
9	"	1538	"	LT2-M1		gal E epi+
10	"	1539	"	SL1716		LT2-M1 (F'8 gal+)
	X/16/73	SW1540	Baron	WR 4255	Coli-S. Typhosa hybrid	cyo- typ+ met- str R
1	XII/11/73	1541	Stocker	SL1657		gal- (undgl.) restriction-
2	"	1542	"	SL1654 (CL4419)		Tamoxth restriction-
3	4-1-75	SW1543	B. Cohen	Galvez Stream, Stanford	(SW1543h)	wild small & fast, smaller than E. coli tiny stram neg rods, motile
4	4-1-75	SW1544	"	SW1543	MTG etc.	Threonine- R.F. day 3 = 1.3×10^{-6} background + tiny colonies
5	4-1-75	SW1545	"	1543	"	slants made Vits- R.F. day 5 = 1.99×10^{-8}
6	"	SW1546	"	1543	"	from Glycine- + serine- R.F. day 5 = 0.35×10^{-8}
7	"	SW1547	"	1543	"	heavily histidine- R.F. days = 3.7×10^{-8}
8	"	SW1548	"	1543	"	streaked arginine- R.F. days = 0.65×10^{-9}
9	"	SW1549	"	1543	"	area of valine- R.F. days = 0.51×10^{-9}
10	"	SW1550	"	1543	"	plate) Threonine- R.F. days = 0.14×10^{-8}
	"	SW1551	"	1543	"	methionine- R.F. days = 1.5×10^{-8}

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	1 date	2 SW	3 Ref	4 Source	5 Agent	6	7 Mutation + chars.	8	9	10
1	4-1-75	SW1552	B. Cohen	SW1543	NTG	R.F. = 0.5×10^{-9}	Group II AA⁻ – lacey appearance of growth at edges but test for ones.			
2	4-1-75	SW1553	"	"	"	R.F. = <1	Group III AA⁻ – but only light growth upon + of			
3	4-1-75	SW1554	"	"	"	2 kinds of colonies even after 3 Pur + reactions.	Mix of more than 1 group needed R.F. = 7.6×10^{-8} Both tiny colonies heaviest growth II → III → I → IV → V Lightest growth			
4	4-1-75	SW1555	"	"	"	R.F. = 2.1×10^{-8}	Group I AA⁻ leaky for Vits + HAs			
5	4-1-75	SW1556	"	"	"	R.F. = 3.7×10^{-7}	are not made + by addition of AAs or Vits By + of HAs → tiniest colonies			
6										
7	4-1-75	SW1557	"	"	"	R.F. = 1.3×10^{-8}	are not made + by addition of AAs or Vits By + of HAs → tiniest colonies			
8	4-1-75	SW1558	"	"	"	minimal plates heavily positive day 2				
9	4-1-75	SW1559	"	"	"	"	"	"	"	
0	4-1-75	SW1560	"	"	"	"	"	"	"	
	4-1-75	SW1561	"	"	"	"	"	"	"	
1	4-1-75	SW1562	"	"	"	"	"	"	"	
2	4-1-75	SW1563	"	"	"	2 kinds colonies after 3 NA purifications (tiny + large) 30 + day 2; background tiny colonies also				
3						AA⁻. Addition of Vits or N.A.→ background tiny colonies + sev. large ones.				
4	4-1-75	SW1564	"	"	"	. . . . . (tiny + large)				
5	4-1-75	SW1565	"	"	"	. . . . . (small + large)				
6										
7						Addition of AAs or Vits or N.A.→ + 2 both kinds of colonies				
8	1-7-76	SW1566	Colon	SL1642		LT7, $Pro^{C}90$, r_{LT}^{-} m_{LT}^{-}				
9										
0										
1										
2										
3										
4										
5										
6										
7										
8										
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