Stockey, it is required by law or result in an order to cease and c	(15), 2140, community devise and to be subject	report according to th Eto penalties as provid	e requisition led for in Se	s tak ction 2150	See revelse side for additional allormation	0180 DUA AN	Gar
	ES DEPARTMENT OF A			1. REGISTRATION	i NO. 4- R - 0003	FORM APP OMB NO ()	
					RS RESEARCH FACILITY (Name and	Address, as registered	with USDA,
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				14-R-0003, Cust ld 100 (b)(6). (b)(7)c DANA-FARBER CANCER INSTITUTE 44 BINNEY ST ONE JIMMY FUND WAY			
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used i	in actual res	earch, testing, teac	hin, BOSTON, MA 02115		ional
		FAC	CILITY LOCA	TIONS (Sites)	····*		
Redstone B	Building			S	mith Research Bldg.	. Floor 11	
Mayer 3					mith Research Bldg.		
			(Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A.)		,
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon xperiments, g, research, , or tests were ted involving boanying pain or is to the animals which appropriate shic, analgesic, or lizing drugs were	E. Number of animals upon which in experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests. the procedures producing pain animals and the reasons such of must be attached to this report).	or tests were ving pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these trugs were not used	F. TOTAL NO. DF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats		·				·····	· · ·
6. Guinea Pigs	12	0		156	0	·	156
7. Hamsters						·····	}
8. Rabbits							
9. Non-human Primates							
10. Sheep							
11. Piqs					· · · · · · · · · · · · · · · · · · ·		
12. Other Farm Animals					·		
13. Other Animals							
Tree Shrews	2	0		2	0	······	2
ASSURANCE STATEMENTS							<u> </u>

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2). Each principal investigator has considered alternatives to painful procedures

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(Chief Executive Officer or	QUARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) ue, correct, and complete (7 U S C Section 2143)	
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
CT 88), which is	obsolete)	

This report is required by law to result than order to cease and	disc 214a) - Lanuer K desist and to be subjec	report according to the Fto penalties as provid	e requiations test for an Sec	. can .tion 2150	See Practse side for additional information	0180-DOA AN	an contra Spi-
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION NO. FORM APPROVE OMB NO 0579-0			
	ب شي	а. <u>4</u>	اللهن ماليوم	2. HEADQUARTER		ldress, as registered	l with USDA,
ANNUAL REPOR	R T OF RESEAF (PE OR PRINT)			· · · ·	14-R-0004, Cust ld 101 (b)(6), (b)(7)c PINE ACRES RABBITRY/FARM 299 E. MAIN STREET NORTON, MA 02766		
3. REPORTING FACILITY (List all I sheets if necessary.)	ocations where animals	were housed or used i	in actual rese	earch, testing, teac	bi		itional
		FAC	CILITY LOCA	fIONS (Siles)			
REPORT OF ANIMALS USED BY O	R UNDER CONTROL O	RESEARCH FACILITY	l (Attach adiu	litional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.		E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyin to the animals and for which the anesthetic, analgesic, or tranquili have adversely affected the proce- interpretation of the teaching, res- experiments, surgery, or tests. (A the procedures producing pain or animals and the reasons such dri- must be attached to this report).	tests were ng pain or distress use of appropriate zing drugs would edures, results, or search, in explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	18	103	14				117
5. Cats							
6. Guinea Pigs	15	4			-		4
7. Hamsters				-	6		
8. Rabbits	97	276	-				276
9. Non-human Primates			-		+		
10. Sheep		11					11
11. Pigs	47	516			· · · · · · · · · · · · · · · · · · ·		5/6
12. Other Farm Animals							
cHicken's	255	1100					1100
13. Other Animals							
OPPrssum		41					41
ASSURANCE STATEMENTS	L		L				L

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Fortily that the above is true, correct, and complete (7 USC Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
		10.10.00			

This report is required by law (result in an order to cease and	desist and to be subject	to penalties as provid	led for in Section 2150	See reverse side for additional information	0180-DOA-AN	
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION NO. 14-R-0010		
				RS RESEARCH FACILITY (Name and A	ddress, as registered	with USDA,
ANNUAL REPOR			The Sci	nepens Eye Research	n Institut	e
	PE OR PRINT)		20 Star	niford Street		
				, MA 02114		
				: Active		
sheets if necessary.)	locations where animals	were housed or used	in actual research, testing, teac	hing, or experimentation, or held for th	ese purposes. Atta	
			CILITY LOCATIONS (Siles)			
Main Research Bui	ilding, 20 S	staniford				
		<u> </u>				
REPORT OF ANIMALS USED BY O	B. Number of	C Number of	Y - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	CESSURY or use APHIS FORM 7023A.)	aching	
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or	animals upon which teaching, research, experiments, or tests were conducted involving no	animals upon which experiments, research, experiments, or experiments, or expe		r tests were ng pain or distress use of appropriate zing drugs would edures, results, or gearch, w explanation of	F. TOTAL NO OF ANIMALS (Cols. C +
	surgery but not yet used for such purposes.	pain, distress, or use of pain- relieving drugs	anesthetic, analgesic, or tranquilizing drugs were used.	the procedures producing pain o animals and the reasons such dr must be attached to this report).		D + E)
4. Dogs	0	0	0	0		0
5. Cats	0	0	00	00		0
6. Guinea Pigs	0	26	0			26
7. Hamsters	0	0	0	0		0
8. Rabbits	2	31	229	0	- 	260
9. Non-human Primates	0	0	3	0		3
10. Sheep	0	0	0	0		0
11. Pigs	0	0	0	0		0
12. Other Farm Animals	0	0	00			0
13. Other Animals	0	0	0	0		0
		L			. <u></u>	
ASSURANCE STATEMENTS						
AUGUNANUE STATEMENTS				· · · · · · · · · · · · · · · · · · ·		

Professionally acceptable standards governing the care, treatment, and use of animals, including apprortate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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(Chief E	ATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL xecutive Officer or Legally Responsible Institutional Official) ertify that the above is true, correct, and complete (7 U S C Section 2143)	
9	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		1/22/00
APHIS FORM 7023 (Replaces VS FORM 18	-23 (OCT 88), which is obsolete)	

(AUG 91)

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This report is expandibly law (7.050 ±14 × 1-4 all endors to report according to the regulations calc result in an order to cease and deast and to be subject to penalties as provided for in Section 2150					Sec reverse side for additional information	di Pradi Priji Mije 0180-DOA AN		
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE				1. REGISTRATION	ISTRATION NO. FORM APPROVED OMB NO: 0579-0036			
	- -	· .		2. HEADOUARTEI include Zip Cod	аs г ^{le)} 14-R-0013, Cust ld 99		'SDA,	
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)					ST. ELIZABETH'S MEDICAL CE 736 CAMBRIDGE STREET BOSTON, MA 02135	INTER OF BOSTON	N (COÎ	
3. REPORTING FACILITY (List all le sheets if necessary.)	ocations where animals	were housed or used i	n actual res	earch, lesting, leac	hing, or experimentation, or held for the	ese purposes. Atta	ch additional	
		FAC	CILITY LOCA	TIONS (Sites)				
Center for Biomed 720 Cambridge St.	ical Researc , Boston, MA	ch Building A 02135		Pine Acr 299 E. M	es Rabbitry/Farm Lain St., Norton, MA	02766		
			(Altoph with	likewal about at a	cessary or use APHIS FORM 7023A)			
A.	B. Number of animals being	C Number of animals upon	D. Number	of animats upon	E. Number of animals upon which te experiments, research, surgery or		F.	
Animals Covered By The Animal Welfare Regulations	bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not	which teaching, research, experiments, or tests were conducted involving no pain, distress, or	upon which experiments, aching, teaching, research, surgery, or tests were conducted involving re accompanying pain or ed distress to the animals ino and for which appropriate		conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these		TOTAL NO OF ANIMALS (COIS. C + D + E)	
·····	yet used for such purposes.	use of pain- relieving drugs.	tranquil used	izing drugs were	animals and the reasons such dru must be attached to this report).	igs were not used		
4. Dogs	0	0		0	0		0	
5. Cats	0	0		0	0		0	
6. Guinea Pigs	0	0		33	0		33	
7. Hamsters	0	0		0	0		0	
8. Rabbits	2	0	34	12	0		344	
9. Non-human Primates	0	0		0	0		0	
10. Sheep	0	0		0	0		0	
11. Pigs	0	0		0	0		0	
12. Other Farm Animals	0	0		0	0		0	
13. Other Animals								
Rats	8	0	1,97	2	0		1,980	
Mice	400	0	2,37	4	0		2,774	
ASSURANCE STATEMENTS								

Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility. 1)

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(Chief Exe	TION BY HEADQUARTES RESEARCH FACILITY OFFICIAL ecutive Officer or Legally Responsible Institutional Official) rely that the above is true, correct, and complete (7 USC Section 2143)	
SIC	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
	24	Ockbey 202
APHIS FORM 7023 (Replaces VS FORM 18-2)	3 (OCT 88) which is obsolete)	

This report is required by law is result in an order to cease and				See reverse sub-for additional information	6180 DCA-AN	··· · · · ·
	TES DEPARTMENT OF A PLANT HEALTH INSPEC		1. BEGISTRATIO	-	FORM APPROVED OMB NO: 0579-0036	
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 3. REPORTING FACILITY (List all locations where animals were housed or used in actual resisheds if necessary)			include Zip Co	(b)(6), (b)(7)c L C F FOUNDATION, INC. 41 MALL ROAD BURLINGTON, MA 01805		
sheets if necessary.)		FA				
		E RESEARCH FACILITY	(Attach adiditional sheets if n	ecessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriat anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which to experiments, research, surgery o conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquil have adversely attected the proc interpretation of the teaching, re experiments.	eaching, r tests were ing pain or distress use of appropriate using drugs would edures, results, or search, An explanation of or distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	n/a					n/a
5. Cats	n/a					n/a
6. Guinea Pigs			12			12
7. Hamsters	n/a					n/a
8. Rabbits			20			20
9. Non-human Primates	n/a					n/a
10. Sheep	n/a					n/a
11. Pigs	_		6			6
12. Other Farm Animals						
Goats			10			10
13. Other Animals	n/a					n/a
ASSURANCE STATEMENTS			I			
1) Destancionally anapptable a	tandarde poverning the	ann treatment and u	co of poincie including any	riate use of anesthetic analoesic and t		

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Legitly that the above is true, correct, and complete (7 U S C Section 2143)						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF OF O OD INSTITUTIONAL OFFICIAL C. OF Print)	DATE SIGNED				
		10/11/02				

This report is required by law of result in an order to cease and (Sile reverse side for additional information	1850 - Liper II. 1819 D.C.A. AN	ente el ele
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION NO. FORM APPE OMBIND 05			
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)			include Zip C (RS RESEARCH FILE 14-R-0017, Cust ld 112 D)(6). (b)(7) c BOSTON UNIVERSITY 5 CUMMINGTON STREET BOSTON, MA 02215		ith USDA,	
3. REPORTING FACILITY (List all li sheets if necessary.)	ocations where animals	were housed or used	in actual reso	earch, lesting, teac	ی ہے ہی ۔ . پر simentation, or held for t	hese purposes. Alla	ch additional
		FAC	CILITY LOCA	TIONS (Siles)			<u></u>
Lab. Animal Care	Facility	·····		Biology			
Biomedical Engine				Psycho1		th Sciences	······
La construction de la constructi					cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	D Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranguilizing drugs were used		E. Number of animals upon which t experiments, research, surgery o conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	r tests were ing pain or distress use of appropriate izing drugs would redures, results, or search, An explanation of or distress in these	F. TOTAL NO OF ANIMALS (Cois. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters	8		2	.0			20
8. Rabbits				2			2
9. Non-human Primates							
10. Sheep							
11. Piqs				·····	· • • • • • • • • • • • • • • • • • • •		
12. Other Farm Animals		· · · · · · · · · · · · · · · · · · ·			·		
13. Other Animals							
ferret	6		1	6			16
gerbils	25		13	4			134
ASSURANCE STATEMENTS							

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) (Certify that the above is true, correct, and complete (7 U S C Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			

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It is report is required to, law G. US result in an order to cease and des	SC 2143: Parities to ast and to be subject	report according to the to penalties as provid	e requirations iad for in Sect	can Ion 2150	àra frivitse side – i addit utal internation	trienager – tri. G130-D6A At	and the second sec
	DEPARTMENT OF A		Γ	1. REGISTRATION	NO.	FORM APP OMB NO 0	
ANNUAL REPORT (TYP)	OF RESEAR E OR PRINT)	CH FACILITY		2. HEADQUARTER include Zip Cod	 MASSACHUSETTS INSTITUTE OFFICE OF SPONSORED PROI 77 MASSACHUSETTS AVENUE 	OF TECHNOLOGY	
3. REPORTING FACILITY (List all loca			n natural securi		CAMBRIDGE, MA 02139		litional
3. REPORTING FACILITY (List all loca sheets if necessary.)	ations where animals	were noused of used f	n actuar reser	ach, resning, reach	ing, or experimentation, or note		
		FAC	LITY LOCAT	IONS (Sites)			
Buildings 56,68, E	17/18, E25						
		· ····································					
REPORT OF ANIMALS USED BY OR U	JNDER CONTROL OF	RESEARCH FACILITY	' (Attach adıdi	tional sheets if nee	cessury or use APHIS FORM 7023A)	,	
A. Animals Covered By The Animal Welfare Regulations	Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which ex teaching surgery, conducte accompa distress and for v anesthet	of animals upon periments, research, or tests were d involving inying pain or io the animals which appropriate ic, analgesic, or cing drugs were	E. Number of animals upon which the experiments, research, surgery or conducted involving accompany in to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proceinterpretation of the teaching, reexperiments, surgery, or tests. (A the procedures producing pain or animals and the reasons such drimust be attached to this report).	r tests were ng pain or distress use of appropriate izing drugs would edures, results, or search, An explanation of or distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs		0	0				0
5. Cats		0	25	5			25
6. Guinea Pigs		17	0				17
7. Hamsters		0	82	2			82
8. Rabbits		46	30)7	: 		353
9. Non-human Primates		10	40)			50
10. Sheep		0	13	3			13
11. Pigs		0	3			·····	3
12. Other Farm Animals							
Chicken		0	28	34			284
13. Other Animals							
Ferrets		0	40	5			46
Mouse Rat		7,368 295	53 1	.848 890			60,416 2,185
Frogs		16	2,5	593			2,609
ASSURANCE STATEMENTS					ale use of anesthetic, analgesic, and t		

and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Eventity that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C F O OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF CEO, OR INSTITUTIONAL OFFICIAL days or Printly

1/2/00

This report is required by law (7) jos <u>alt</u> in an for to bease and de					See reversals de additional inform	. foc interagence atem 0180-DO4-4	Present Control Typ -
	S DEPARTMENT OF ANT HEALTH INSPE			1. REGISTRATION 14-R-		FORM APPROVED OMB NO: 0579-0038	,
				2. HEADQUARTEF with the USDA, ii	S RESEARCH FACILIT	"Y (Name and Address, as regi	stered
ANNUAL REPC (7	D RT OF RESEA TYPE OR PRIN		(Harvard Medic Ctr. for Animal 665 Huntingtor Boston, MA 02 Status: Active	Resources & Compa NAvenue 115	arative Medicine , , _ 3 ∪	2010
3. REPORTING FACILITY (Lis purposes. Attach additional		nimals were housed o	r used in ac	ctual research, testing,	teaching, or experiment	tation, or held for these	
			FACILITY	LOCATIONS (Sites)			
See attached.				See attached.			
REPORT OF ANIMALS USED	BY OR UNDER CON	TROL OF RESEARC	H FACILITY	(Attach additional sh	eets if necessary or use	APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (<i>List by Species</i>)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	upon teach surge condu accor distre and fo anest	ers of animals which experiments, ing, research, ry, or tests were ucted involving mpanying pain or ss to the animals or which appropriate hetic, analgesic, or uilizing drugs were	conducted involvin distress to the anir appropriate anesth tranquilizing drugs affected the procee interpretation of the experiments, surge of the procedures, these animals and	arch, surgery or tests were ig accompanying pain or nals and for which the use of tetic, analgesic, or would have adversely	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	61			0	61
5. Cats	0	0		57		0	57
6. Guinea Pigs	0	1		0		0	1
7. Hamsters	0	103		235		0	338
8. Rabbits	6	42		514		0	556
9. Non-human Primates	1435	31		653		0	684
10. Sheep	0	0		156		0	156
11. Pigs	0	0		587		0	587
12. Other Farm Animals			11. 113				· · · ·
Goats	0	0		1		0	1
13. Other Animals		· · · · · · · · · · · · · · · · · · ·					
Chickens	0	451		0		0	451
Ferrets	0	0		26	· ·	0	26
-Frogs	5	0		271		0	271
Gerbils	0	40		0		0	40
Mice (deer)	0	530	L	0		0	530
ASSURANCE STATEMENTS Professionally accept during and following	able standards govern	ing the care, treatmen	t, and use c	of animals, including a	opropriate use of anesth by this research facility.	etic, analgesic, and tranquilizin	g drugs, prior to,
-	gator has considered a				, and recontrol monity.		
 This facility is adherin principal investigator 	g to the standards and and approved by the Ir	regulations under the istitutional Animal Car	Act, and it e and Use (Committee (IACUC).	A summary of all such early a such early a such a s	and regulations be specified ar xceptions is attached to this an as the species and number of a	nual report. In
						care and to oversee the adequa	

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL	DATE SIGNED				
		11/29/00				

	ES DEPARTMENT OF		1 REGISTRATI 14-	GN NO R-0019	FORM APPROVE OMB NO: 0579-00	
CONTINUATION		NNUAL REPO	RT with the USDA Harvard Mee	A, include Sip Code) dical School nal Resources & C ton Avenue 02115	ACILITY (<i>Name and Address, as r</i>	
REPORT OF ANIMALS USE	D BY OR UNDER CO	NTROL OF RESEAR	CH FACILITY (Attach addition	al sheets if necessar	y or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (<i>List by Species</i>)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experiments teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	 experiments conducted in distress to th appropriate a tranquilizing affected the interpretation experiments of the proceed these anima 	nimals upon which teaching, , research, surgery or tests were twolving accompanying pain or le animals and for which the use o anesthetic, analgesic, or drugs would have adversely procedures, results, or of the teaching, research, , surgery, or tests. (An explanation dures producing pain or distress in ls and the reasons such drugs and must be attached to this report.)	n (Cols. C + D + E)
13. Other continued						* 20.
-Birds (wild caught)	0	15	0		0	15
Degus	0	0	31		0	31
		1				
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n in the second s		Koras			· · · · · ·	
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	l	·				
ASSURANCE STATEMENT: Professionally accept during, and following	able standards govern	ing the care, treatmen ing, testing, surgery, o	t, and use of animals, including r experimentation were followe	g appropriate use of a ed by this research fa	anesthetic, analgesic, and tranquili cility.	zing drugs, prior to,
This facility is adherir	and approved by the Ir	l regulations under the Istitutional Animal Car	Act, and it has required that e and Use Committee (IACUC	 A summary of all s 	dards and regulations be specified such exceptions is attached to this	annual report. In
					as well as the species and number rinary care and to oversee the ade	

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).				
SIC	NAME & TITLE OF CE C OP INSTITUTIONAL OFFICIAL	DATE SIGNED 11/29/00		

FACILITY SITES LISTING

Licensee/Registrant Name:

Harvard Medical School Center for Animal Resources & Comparative Medicine 14-R-019

License/Registration Number:

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.: 1		Name/Department:	Center for Animal Resources & Comparative Medicine (ARCM)		
		Address:	Boston MA 02115		
		(a) Building(s):	ARCM/Central - HSPH/Bldgs. I&II 665 Huntington Avenue		
		Floor/Room: Contact Perso Phone Numb	Ground and Basement Levels		
		(b) Building(s): Floor/Room: Contact Perso Phone Numb Contact Perso Phone Numb	on: ber: on:		
		(c) Building(s): Floor/Room: Contact Pers	on:		
		Phone Numb			
		(d) Building: Floor/Room: Contact Perso Phone Numb	on:		
Site No.:	17	Name/Department: Address:	New England Regional Primate Research Center One Pine Hill Drive		
		Building(s): Floor/Room: Contact Person: Phone Number:	Southboro, MA 01772 Main Building and Three Out Buildings Basement and Ground Floors		

FACILITY SITES LISTING

Licensee/Registrant Nam	ne:
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Harvard Medical School Center for Animal Resources & Comparative Medicine 14-R-019

License/Registration Number:

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:	18	Name/Department: USDA Registration No.: Address: Building: Floor/Room: Contact Person: Phone Number:	ARCM/Thorn (satellite) 14-R-092 20 Shattuck Street, Boston MA 02115 Thorn Building 15th Floor
Site No.:	21	Name/Department: USDA Registration No: Address: Building: Floor/Room: Contact Person: Phone Number:	Pine Acres Rabbitry/Farm (satellite - swine/dog housing only) 14-B-52 299 East Main Street, Norton MA 02766 Main Building First Floor

This report is required by law (7 USC 2143). Failure to report according to the regulations can	See attached form for Interagency Report Control No.) additional information
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE	1. CERTIFICATE NUMBER: 14-R-0020 FORM APPROVED CUSTOMER NUMBER: 117
DEC 12 COUL ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)	Children'S Hospital, The John Enders Pediatric Research 300 Longwood Avenue, Enders 146, ATTN (b)(6), (b)(7)c Boston, MA 02115
	Telephone: (617) -355- <u>7058</u> 3557386
3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, te	sting, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, a	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to	F. TOTAL NUMBEF OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0	0	25	. 0	25
5. Cats	0	0	1	0	1
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	4	129	0	133
9. Non-human Primate	0	0	0	0	0
IO. Sheep	0	0	71	0	71
11. Pigs	0	0	219	0	219
12. Other Farm Animals	0	0	0	0	0
3. Other Animals	N/A	N/A	N/A	N/A	N/A
	· • · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures.

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)



is obsolete.

This report is required by law to result in an order to cease and					bite reverse bete for additional information	UTBU DOALAN	rd a soloof ta
	ES DEPARTMENT OF A			1. REGISTRATION	NO.	FORM APP OMB NO/10	
	ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				AR RESEARCH FACILITY (Name and A 4-R-0021, Cust Id 118 (6), (b)(7)C ORTHEASTERN UNIVERSITY 10 HUNTINGTON AVENUE 3 LAKE HALL DSTON, MA 02115	ddress, as registered	I WHY USDA
	ocations where animals	were housed or used	in actual resi	earch, testing, teac		- umu	h additional
		FAC	CILITY LOCA	TIONS (Siles)			
Mugar Life Scienc	es Building			Ni	ghtindale Hall		
Richards <u>Hall</u>							
	R UNDER CONTROL O	RESEARCH FACILITY	l (Attach adio	litional sheets if ne	cessary or use APHIS FORM 7023A)		
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduct accomp distress and for anesthe	of animals upon xperiments, g, research, or tests were led involving anying pain or to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which the experiments, research, surgery of conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (/ the procedures producing pain of animals and the reasons such dri must be attached to this report).	r tests were ing pain or distress use of appropriate izing drugs would edures, results, or search, An explanation of or distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats					<u>,</u>		
6. Guinea Pigs					· · · · · · · · · · · · · · · · · · ·	·	
7. Hamsters		396	102		·····		498
8. Rabbits			65		· · · · · · · · · · · · · · · · · · ·		65
9. Non-human Primates					· •·· · ·		
10. Sheep							
11. Pigs		· · · · · · · · · · · · · · · · · · ·					
12. Other Farm Animals							
13. Other Animals					······		
<u>. </u>							
	I		l				l

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures

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4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFIC (Chief E	CATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL Executive Officer or Legally Responsible Institutional Official) B, correct, and complete (7 USC Section 2143)	
SIC	NAME & TITLE OF CEOLOD INSTITUTIONAL OFFICIAL CONTRACT	DATE SIGNED
		11/25/0
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This report is required by law \hat{x} result in an order to cease and					See reverse side for additional information	lateragene y ≥su 0180-DOA-AN	urt valodr of Arc
	ES DEPARTMENT OF A			1. REGISTRATION		FORM APP	
2			14-R-0022 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA				
	, i ,		· · · · ·	include Zip Cod		in out, us registerer	
ANNUAL REPOR							
(TY	PE OR PRINT)				MASSACHUSETTS EYE & EAR IN 243 CHARLES STREET	FIRMARY	
					BOSTON, MA 02114		
3. REPORTING FACILITY (List all I sheets if necessary)	ocations where animals	were housed or used	in actual res	earch, lesting, teac	l h⊳ _≫ ,		ditional
		FAG	CILITY LOCA	TIONS (Siles)			
Massachusetts Eye	& Ear Infir	mary					
			Ì				
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILIT	f (Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A.	B. Number of animals being	C Number of animals upon		r of animals upon xperiments,	E. Number of animals upon which te experiments, research, surgery or	tests were	F.
Animals Covered By The Animal	bred, conditioned, or held for use in	which teaching, research,	surgery	g, research, , or tests were	conducted involving accompanyir to the animals and for which the u	use of appropriate	TOTAL NO
Welfare Regulations	teaching, testing, experiments,	experiments, or tests were conducted	accomp	ted involving banying pain or	anesthetic, analgesic, or tranquili, have adversely affected the proce interpretation of the teaching, res	dures, results, or	OF ANIMALS
	research, or surgery but not	involving no pain, distress, or	and for	to the animals which appropriate	experiments, surgery, or tests. (A the procedures producing pain of	n explanation of	(Cols. C + D + E)
	yet used for such purposes.	use of pain- relieving drugs.		tic, analgesic, or lizing drugs were	animals and the reasons such dru must be attached to this report).	ugs were not used	
4. Dogs				0			0
5. Cats			3	18		· · · · · · · · · · · · · · · · · · ·	38
6. Guinea Pigs			17	0			170
7. Hamsters				0			0
8. Rabbits			23	1			231
9. Non-human Primates			2	6			26
10. Sheep				0			0
11. Pigs				3			3
12. Other Farm Animals							
13. Other Animals							
Chinchillas			1	0			10
Frogs			3				36
			<u>-</u>				
ASSURANCE STATEMENTS	1		I				
1) Professionally acceptable st	4. 4			including poprori			

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2). Each principal investigator has considered alternatives to painful procedures.

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4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Exertify that the above is true, correct, and complete (7 U.S.C. Section 2143) DATE SIGNED 12 5

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	ES DEPARTMENT OF A		1. REGISTRATION	NO.	FORM APPROVED	
		. 	2. HEADQUARTER	RS RESEARCH FACILITY (Name and Address.		
	م من <mark>فر</mark> ما م		i include Zip Coo	14-R-0025, Cust ld 121		
	T OF RESEAR (PE OR PRINT)	CH FACILITY		(b)(6). (b)(7)c HOLYOKE COMMUNITY COLLE	GF	
(//				VETERINARY & ANIMAL SCIEN		
• "•				303 HOMESTEAD AVENUE	<u>.</u>	
. REPORTING FACILITY (List all k sheets if necessary.)	ocations where animals	were housed or used i	n actual research, testing, teac	hing, or experimentation of the provided of th	nposes. Annun avanianal	
		FAC	CILITY LOCATIONS (Sites)			
1 1 0 1.		1 0 14 1 7				
lyoke Community C ormerly named D-E		el & Mrb-Bu	ilding			
EPORT OF ANIMALS USED BY OF	B. Number of			Cessery or use APHIS FORM 7023A)		
Animals Covered By The Animal Welfare Regulations	b. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but nol yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests conducted involving accompanying pain to the animals and for which the use of anesthetic, analgesic, or tranquilizing di- have adversely affected the procedures, interpretation of the teaching, research, overfinedic surgery of lock. (An appl	were o or distress appropriate rugs would results, or anation of pss in these o or distress TOTAL NC OF ANIMA OF Cols. C D + E	
. Dogs		3	4		7	
5. Cats		7	3		10	
5. Guinea Pigs		2			2	
7. Hamsters		2			2	
3. Rabbits		3	2		5	
9. Non-human Primates						
0. Sheep						
11. Pigs						
12. Other Farm Animals						
13. Other Animals	+					
Gerbils		2			2	
ASSURANCE STATEMENTS	<u> </u>	L		1		
1) Professionally acceptable s	tandards governing the	care, treatment, and i	use of animals, including approx	riate use of anesthetic, analgesic, and tranqui	lizing drugs, prior to, during	

principal investigator and approved by the institutional Animal Care and Use Committee (ACUC). A summary of all such exceptions is arrached to this annual report, addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)							
SIGNATINE OF CEO OF INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
		10-27-00					
د د (AUG 91)	hich is obsolete)						

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE			1. REGISTRATION	14-R-0027	FORM APP OMB NO 0		
2				RS RESEARCH FACILITY (Name and	<u></u>		
				include Zip Coo			
ANNUAL REPOR		CH FACILITY			(b)(6), (b)(7)c		
(7)	YPE OR PRINT)				AVANT IMMUNOTHERAPEUTIC	CS, INC.	
					119 FOURTH AVENUE		
REPORTING FACILITY (List all	locations where animals	were housed or used	in actual res	earch, testing, teac	NEEDHAM, MA 02194 h		titional
sheets if necessary.)				-		DEC - 5	ourn
		FA	CILITY LOCA	TIONS (Sites)			
19 FOURTH	AVE., NET	DHAM M	1A		<u></u>	<u></u>	
			/ / A M h				
PORT OF ANIMALS USED BY O	B. Number of	C Number of			cessary or use APHIS FORM 7023A.) E. Number of animals upon which		F.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	 ber of animals upon which leaching, experiments, ing, research, stry, or lests were conducted involving accompanying pain or distres to the animals and for which the use of appropriate anesthetic, analgesic, or unitary of the procedures producing pain or distres in these of the procedures in the second acted to this report). E. Number of animals upon which leaching, experiments, research, surgery or lests were conducted involving accompanying pain or distres to the animals and for which the use of appropriate anesthetic, analgesic, or uniterpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report). 		ving pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these frugs were not used	TOTAL NO OF ANIMAL (Cols. C D + E)
Dogs							
Cats							
. Guinea Pigs							
. Hamsters							
Rabbits		95	2	.3			118
Non-human Primates		·					
0. Sheep							
1. Pigs							
2. Other Farm Animals						· _ · · · · · · · · · · · · · · · · · ·	
3. Other Animals							
······································							
						<u> </u>	
SSURANCE STATEMENTS							
1) Professionally acceptable st and following actual researc					ate use of anesthetic, analgesic, and ch facility.	tranquilizing drugs, p	rior to, during,
2). Each principal investigator	has considered alternati	ves to painful procedu	ires				

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Leerly that the above is true, correct, and complete (7 USC Section 2143)						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
		11/30/00				

This report is required by law or result in an order to cease and c	opt, endso if and intersection resist and to be subject	tipori ai corazig to tr Eto penalties as provid	e regulations tect for in Sect	can ion 2150	Gen receive side for additional information	с 1169 р. н. н. н. 6186 DUA AN	atu, ares ta
	ES DEPARTMENT OF A			1. REGISTRATION	i no.	FORM APP OMB NO 0	
ANNUAL REPOR	T OF RESEAR PE OR PRINT)		••	N 17	4-R-0029, Cust ld 125 EW ENGLAND AQUARIUM 77 MILK STREET OSTON, MA 02110	addross as realistero.	J WIIN USDA
3. REPORTING FACILITY (List all lo sheets if necessary.)	ocations where animals	were housed or used	in actual resea	nrch, lesting, leac	hing, or experimentation, or new ior i	11628 haihanan	ah additional
		FAG	CILITY LOCAT	ONS (Sites)			
Marine Mammal D			·····				
Animal Care Cen	ter - Main	n building	y				
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	í (Attach adidi	lional sheets if ne	cessary or use APHIS FORM 7023A)	•	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which exp teaching, surgery, of conducte accompa distress t and for w anestheli	of animals upon beriments, research, or tests were d involving nying pain or o the animals hich appropriate c, analgesic, or ing drugs were	E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	or tests were ing pain or distress use of appropriate liking drugs would cedures, results, or isearch, An explanation of or distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats				<u></u>			
6. Guinea Pigs							
7. Hamsters							
8. Rabbits					·····		
9. Non-human Primates							
10. Sheep					······································	·	
11. Piqs							
12. Other Farm Animals							
13. Other Animals							
California sea- lions	4	2		0	0		2
harbor seals	7	1		0	0		1
Callfornia sea- otters	2	2		0	0		2
ASSURANCE STATEMENTS					ate use of anesthetic analogsic and t		

and following actual research, teaching, testing, surgery, or experimentation were followed by this research lacility.

2) Each principal investigator has considered alternatives to painful procedures

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(Chief Executive Officer or	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) e. correct, and complete (7 USC Section 2143)	
STITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIG

SIGNATURE OF C.E.O. OR INS

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Tus es of is equired by law or its result in an order to cease and des	ist and to be subject	report a cording to the To penalties as provid	e requisition ed for t e Se	2.540 CNON 2150	Secondense obtenor additional information	0180-DOA AN	an
	DEPARTMENT OF A			1. REGISTRATION	I NO.	FOR M APP	
ANIMAL AND PLANT HEALTH INSPECTION SERVICE				<u>14R-00</u>		OMB NO 0	
	and a second second Second second				RS P ^{de)} 14-R-0030. Cust ld 126		* ** ''SDA
	E OR PRINT)				BRANDEIS UNIVERSITY GRANT, CONTRACT & PATE P.O. BOX 9110 WALTHAM, MA 02254		
3. REPORTING FACILITY (List all loca sheets it necessary) Foste:		LCal Resea	rch 1		hing, or experimentation, or held for t ries - Brandeis		
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REPORT OF ANIMALS USED BY OR U	NDER CONTROL OF	RESEARCH FACILITY	(Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A.)	•	
the second s	Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Numbe which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, r, or tests were ted involving panying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were	E. Number of animals upon which I experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re- enterpretation of the teaching.	leaching, or tests were ing pain or distress a use of appropriate lizing drugs would cedures, results, or esearch, (An explanation of or distress in these trugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							0 ^
5. Cats							0
6. Guinea Pigs				<u>.</u>			0
7. Hamsters	380	82					82
8. Rabbits		17					17
9. Non-human Primates				···			0
10. Sheep							0
11. Pigs						<u></u>	0
12. Other Farm Animals							00
13. Other Animals		· · · · · · · · · · · · · · · · · · ·					0
Gerbils		192					192
					·····		
ASSURANCE STATEMENTS							

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)							
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
		10/18/00					
A ST 8	8), which is obsolete)						

Welfare Regulations held for use in teaching, testing, experiments, research, or involving no experiments, or conducted involving accompanying pain or and for which appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or experiments, surgery, or tests. (An explanation of experiments, surgery, or tests. (An explanation of explanation of experiments, explanation of experiments, explanation of experiments, explanation of explanation of explanation of explanation of explanation of ex	Sugarial equivality law is sufficient or order to clease and d					Sue reverse side for additional information	a teorques y mus 0180-DOA AN	an menter de la
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, lesting, leaching, or experimentation, or neid for linese purposes. Interve woldlions sheets if necessary) FACILITY LOCATIONS (Siles) CraVax, Inc., 38 Sidney St., Cambridge, MA 02139 REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach aduditonal sheets if necessary or use APHIS FORM 7023A) A A A A A A A A Melfare Regulations B Number of animals Govered B B Number of animals Covered B B Number of animals upon teaching, research, or surgery on tests were conducted involving accompanying pain or distress in the teaching, research, results, or isseeriments, research, or use of pain- grey but not yet used for such purposes. B Chained for such purposes. B Chained for such purposes. B Chained for such purposes. Chained for such purposes. A A A A A A A A A					1. REGISTRATION	NO.		
3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or neid for these purposes. Intern widthional sheets if necessary) FACILITY LOCATIONS (Sites) FACILITY LOCATIONS (Sites) CraVax, Inc., 38 Sidney St., Cambridge, MA 02139 REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adultional sheets if necessary or use APHIS FORM 7023A) A B Number of animals being bred, conditioned, or held for use in teaching, research, or beld for use in teaching, research, or surgery or tests were conducted involving no mich teaching, research, or surgery but not yet used for such surgery. C Number of animals upon which teaching, research, surgery or tests. (An explanation of the teaching, research, or use of pain-research, or use of pain-relation of the procedures producing pain or distress to the animals and for which the case appropriate anesthetic, analgesc, or tranquilizing drugs would have adversely altected the procedures producing pain or distress. (Interpretation of the reasons such drugs were nol used must be attached to this report). F. Cols. D + purposes. D + purposes. D + purposes.			H FACILITY		2. HEADQUARTER include Zip Cod	 P. 14-R-0031. Cust ld 127 ORAVAX, INC. 		
FACILITY LOCATIONS (Siles) FACILITY LOCATIONS (Siles) CraVax, Inc., 38 Sidney St., Cambridge, MA 02139 REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Altach adiditional sheets if necessary or use APHIS FORM 7023A) A A B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. C Number of animals upon which teaching, research, experiments, or surgery or tests were conducted involving and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used D. Number of animals upon which tests were conducted involving accompanying pain or distress interpretation of the teaching, research, experiments, surgery, or tests (An explanation of the procedures producing pain or distress in these anisthetic, analgesic, or tranquilizing drugs were used F.	PORTING FACILITY (List all ic	cations where animals we	re housed or used i	in actual res	arch, testino, teach	-		
CraVax, Inc., 38 Sidney St., Cambridge, MA 02139 REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach aduditional sheets if necessary or use APHIS FORM 7023A) A. A. B. Number of animals being bred, conditioned, or held for use in teaching, lessing, experiments, or surgery but not yet used for such purposes. C. Number of animals upon which teaching, research, surgery, or tests were conducted involving no pain, distress, or used purposes. D. Number of animals upon which research, surgery, or tests were conducted involving no pain, distress, or used purposes. D. Number of animals upon which teaching, research, surgery, or tests were conducted involving no pain, distress, or used purposes. D. Number of animals upon which teaching, research, surgery, or tests were conducted involving no pain, distress, or used purposes. D. Number of animals upon which teaching, research, surgery, or tests were conducted involving no pain, distress, or used pain- relieving drugs. D. Number of animals upon which teaching, research, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were nol used must be attached to this report). F.	eets if necessary.)							
A B Number of animals being bred, conditioned, or held for use in tests in tests were conducted involving no tests, research, or surgery but not yet used for such purposes. C Number of animals upon which teaching, research, surgery, or tests were conducted involving no tests were not used involving no testests in these animals and the reasons such drugs were nol used in			·······					
A B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or yet used for such purposes. C. Number of animals upon which teaching, research, experiments, or tests were conducted involving pain or distress, or yet used for such purposes. D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate and for which appropriate animals and the reasons such drugs were not used must be attached to this report). F.	CraVa	x, Inc., 3	8 Sidney	st.,	Cambrid	ge, MA 02139		
A B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. C Number of animals upon which teaching, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used F. Vertice Vertice Vertice Vertice F. Vertice Vertice Vertice Vertice Vertice F. Vertice Ve								
Animals Denig animals being animals upon which teaching, research, stant teaching, research, or tests were conducted involving accompanying pain or distress or interpretation of the teaching, research, or surgery but not year used for such purposes. which experiments, research, teaching, research, surgery or tests were conducted involving accompanying pain or distress or interpretation of the teaching, research, or surgery but not year used for such purposes. TOTAL	RI OF ANIMALS USED BY OR	B. Number of C						F
4. Dogs	By The Animal	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-	which e teaching surgery conduct accomp distress and for anesthe tranquil	xperiments, g, research, or tests were ed involving anying pain or to the animals which appropriate tic, analgesic, or	experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d	r lests were ing pain or distress use of appropriate lizing drugs would redures, results, or search, An explanation of or distress in these	TOTAL NO. OF ANIMALS (Cols. C + D + E)
	Dogs							
5. Cats	Cats							
6. Guinea Pigs	Guinea Pigs							
7. Hamsters	Hamsters							
8. Rabbits	Rabbits							
9. Non-human Primates	Non-human Primates							
10. Sheep	Sheep							
11. Pigs	Piqs							
12. Other Farm Animals	Other Farm Animals							
13. Other Animals	Other Animals							
Gerbils 113 113	Gerbils			113				113
ASSURANCE STATEMENTS 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, durin								

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) t certify that the above is true, correct, and complete (7 U S C. Section 2143)							
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
		10/23/00					

To a right to required by law . esent in an order to cease and					Sectional information	0130 DUA AN	a not. Alter	
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE				1. REGISTRATION NO. FORM APP OMB NO: 0				
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				2. HEADOUARTERS RESEARCH FACILITY (Name and A Strain Strai				
3. REPORTING FACILITY (List all sheets if necessary.)		were housed or used i ttached	n actual res	earch, testing, teac	hinç	ese purposes. Atta	ch additional	
		FAC	CILITY LOCA	TIONS (Siles)				
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	/ (Attach adu	litional sheets if ne	cessary or use APHIS FORM 7023A)			
A. Animals Covered By The Animat Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	of animals upon xperiments, g, research, , or tests were ted involving annying pain or to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyin to the animals and for which the i anesthetic, analgesic, or tranquil have adversely affected the procedinterpretation of the teaching, resexperiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dramust be attached to this report).	tests were tests were tests appropriate zing drugs would edures, results, or tearch, in explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)	
4. Dogs								
5. Cats					· · · · · · · · · · · · · · · · · · ·			
6. Guinea Pigs								
7. Hamsters								
8. Rabbits			1	06			106	
9. Non-human Primates								
10. Sheep			1	0			10	
11. Pigs					· · · · · · · · · · · · · · · · · · ·			
12. Other Farm Animals								
13. Other Animals								
ASSURANCE STATEMENTS							••••••	

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
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this report is required by law or result in an order to clease and o				Sub-revenue side for additional information	6180-004 AN	
	ES DEPARTMENT OF A LANT HEALTH INSPEC		1 REGISTRATIO	1 REGISTRATION NO. FORM APPROV OMB NO: 0579-		
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)			2. HEADQUARTE include Zip Co			
3. REPORTING FACILITY (List all lo sheets if necessary.)	cations where animals	were housed or used	n actual research, testing, teac	ching, or experimentation, or held for thes	e purposes. Attach additional	
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see attached						
DEDORT OF ANIMAL & USED BY OF				ecessary or use APHIS FORM 7023A)	····	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing,	C Number of animals upon which teaching, research, experiments, or lests were	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or	E. Number of animals upon which tead experiments, research, surgery or te conducted involving accompanying to the animals and for which the us anesthetic, analgesic, or tranquilizin have adversely affected the proceding	ests were pain or distress e of appropriate of drugs would ures, results, or	
	experiments, research, or surgery but not yet used for such purposes.	conducted involving no pain, distress, or use of pain- relieving drugs.	distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	interpretation of the teaching, resea experiments, surgery, or tests. (An the procedures producing pain or or animals and the reasons such drug must be attached to this report).	explanation of (Cols. C + listress in these D + E)	
4. Dogs	Ø	ø	Ø	Ø	Ø	
5. Cats	Ø	ø	Ø	ø	Ø	
6. Guinea Pigs	Ø	ø	Ø	ø	ø	
7. Hamsters, syrian	117	116	1492	ø	1608	
8. Rabbits	6	16	76	ø	92	
9. Non-human Primates	ø	10	ø	ø	10	
10. Sheep	Ø	ø	ø	ø	Ø	
11. Pigs	Ø	ø	53	Ø	53	
12. Other Farm Animals				·		
Cattle	Ø	Ø	2	ø	2	
13. Other Animals						
Hamsters, siberian	383	7	43	Ø	50	
Gerbils	15	Ø	69	Ø	69	
Prairie voles	270	390	430	ø	820	
ASSURANCE STATEMENTS						

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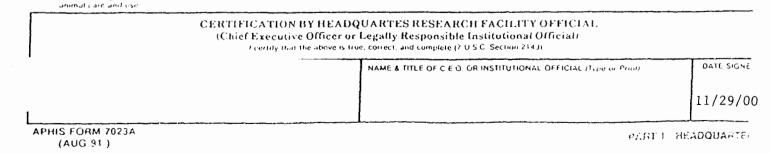
CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Fourthy that the above is true, correct, and complete (7 USC Section 2143)					
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
		11/29/00			

	UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE					т. REGISTIVATION NO FORM APPOLS 14-R-0036 ОМБ №3-0575		
CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) Status: Active						t		
REPORT OF ANIMALS USED BY	OR UNDER CONTROL O	F RESEARCH FACILIT						
A Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, tosting, experiments, research, or surgery but not yet used for such	animals upon which leaching. research, surgery experiments, or tests were accomp conducted distress involving no and for pain, distress, or ariesting		 Inder of animals upon ich experiments, ching, research, gery, or tests were doubted involving companying pain or tress to tite animals for which appropriate E. Number of animals upon experiments, research, surgery or tests with conducted involving accumpanying pain or to the animals and for which the use of a anesthelic, analgesic, or tranquitizing dru have adversely affected the procedures, in interpretation of the teaching, research, experiments, surgery, or tests (An explain the procedures producing pain or disfuest annear and the interaction pain or disfuest and the interaction of the rescons puch drugs were 		 tests were tests were tig pain or distress use of appropriate zing drugs would dures, results, or tearch, textination of r distress in these 	F TOTAL NO OF ANIMAL (Cols. C D + E)	
(List by species)	purposes	use of pain- relieving drugs	tranquilizing used	drugs were	must be attached to this report)			
Meadow voles	Ø	46	Ø		ø		46	
Redbacked voles	Ø	197	Ø		Ø		197	
Deer mice	Ø	370	Ø		Ø		370	
N. Short tailed sh	rew Ø	29	ø		Ø		29	
E. chipmunk	ø	10	ø		ø		10	
Masked shrew	Ø	43	Ø		Ø		43	
Red squirrel	ø	1	ø		Ø		1	
Star nosed mole	Ø	_1	ø		Ø		1	
Shorttailed weasel	Ø	3	ø		Ø		3	
Sm. Indian Mongooses	Ø	3	ø		Ø		3	
Sm Indian civets	Ø	3	3		Ø		6	
Common palm civets	ø	3	4		Ø		7	
Fishing cats	ø	ø	2		Ø		2	
Darwin's fox	Ø	ø	15	·	Ø		15	
<u>Grey fox</u>	Ø	11	Ø		Ø		11	
Culpeo fox	ø	2	Ø		Ø		_2	
Kod-Kod	Ø	ø	3		Ø		3	
(South American wild-cat								
species)								
ASSURANCE STATEMENTS								

Professionally acceptable standards governing the care, treatment, and use of animals, including apprortate use of anesthetic -analgesic -and tranquilizing drugs, prior to, diring and following actual research, feaching, festing, surgery, or experimentation were followed by this research facility.

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	TES DEPARTMENT OF A PLANT HEALTH INSPEC		1. REGISTRA	TION NO.	FORM APP	ROVED \
ANIMALAND	PLANT REALTH INSPEC	CHON SERVICE			OMB NO 0	579-0036
	· · · · ·		2. HEADQUA include Zip	RTE 14-R-0038, Cust ld 132		USDA
ANNUAL REPORT OF RESEARCH FACILITY				WILLIAMS COLLEGE		
(T	YPE OR PRINT)			P.O. BOX 666		
				WILLIAMSTOWN, MA 01267		
B. REPORTING FACILITY (List all	locations where animals	were housed or used	in actual research, testing,	teaching, or experimentation, or held for	these purposes. Atta	ch additional
a factor and the second s				RIVE, WILLIAMSTOWN, M		
		FAC	CILITY LOCATIONS (Siles)			
				if necessary or use APHIS FORM 7023A.)		
L	B. Number of	C Number of	D. Number of animals up	E. Number of animals upon which	teaching,	F.
Animals Covered	animals being bred,	animals upon which teaching,	which experiments, teaching, research,	conducted involving accompany	ying pain or distress	r.
By The Animal Welfare Regulations	conditioned, or held for use in	research, experiments, or	surgery, or tests were conducted involving	to the animals and for which the anesthetic, analgesic, or tranqu	ilizing drugs would	TOTAL NO. OF ANIMALS
	teaching, testing, experiments,	tests were conducted	accompanying pain or distress to the animals	s interpretation of the teaching, r	esearch,	
	research, or surgery but not	involving no pain, distress, or	and for which appropri anesthetic, analgesic, a	the procedures producing pain	or distress in these	(Cols. C + D + E)
	yet used for such purposes.	use of pain- relieving drugs.	tranquilizing drugs we used.	re animals and the reasons such o must be attached to this report)		
4. Dogs						0
5. Cats						0
5. Guinea Pigs						0
7. Hamsters						0
3. Rabbits						0
9. Non-human Primates						0
IO. Sheep						0
1. Pigs						0
2. Other Farm Animals						0
						0
3. Other Animals						0
						0
					· · · · · · · · · · · · · · · · · · ·	0
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SSURANCE STATEMENTS	•					ĭ

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Itas report is required by taw or doe of tas in other to report use individuants or devided been or result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.					See rowers side the additional information	0150 0044 4 4	
	ES DEPARTMENT OF A PLANT HEALTH INSPEC		1. R	EGISTRATION	TRATION NO. FORM APPROVED ; 75-0035		
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ANNUAL REPOR	PE OR PRINT)			3	ECKER COLLEGE PAXTON STREET EICESTER, MA 01524		
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used i	n actual research	testing, leac	ning, or experimentation, or held for t	hese purposes. Atta	ch additional
		FAC	CILITY LOCATION	S (Sites)			
Becker College	<u>j</u>						
Lenfest Animal		lding		· · · · · · · · · · · ·			
955 Main Stree							
Leicester, Mas	ssachusetts	01524					
		and the second se	(Attach adiditiona	il sheets il ne	cessary or use APHIS FORM 7023A)		- ···
A. Animals Covered By The Animal Welfare Regulations	he Animal conditioned, or research, surgery, or test held for use in experiments, or conducted invo teaching, testing, tests were accompanying experiments, conducted distress to the research, or involving no and for which a		nents, earch, sts were volving g pain or e animals i appropriate	E. Number of animals upon which t experiments, research, surgery o conducted involving accompany to the animals and for which the anesthetic, analgesic, or traquil have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain of the procedures producing pain of	or tests were hying pain or distress he use of appropriate uilizing drugs would ocedures, results, or research, (An explanation of	F. TOTAL NO OF ANIMALS (Cols. C +	
	surgery but not yet used for such purposes.	pain, distress, or use of pain- relieving drugs.	anesthetic, analgesic, or tranquilizing drugs were used		animals and the reasons such d must be attached to this report).		D + E)
4. Dogs		3	17		······································		20
5. Cats		1	8				9
6. Guinea Pigs		5	1				6
7. Hamsters		00	0				0
8 Rabbits		8	0				8
9. Non-human Primates		0	0		· · · · · · · · · · · · · · · · · · ·		0
10. Sheep		0	0		· · · · · · · · · · · · · · · · · · ·		0
11. Pigs		0	0		· ·		0
12. Other Farm Animals		0	0				0
13. Other Animals		0	0				0
ASSURANCE STATEMENTS							
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4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Legisly that the above is true, correct, and complete (7 U S C. Section 2143)						
SI	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
APHIS FORM 7023	(Replaces VS FORM 18-23 (OCT 88), which is obsolete)	,				

(AUG 91)

(Heplaces VS FORM 18-23 (OG1 88), which is obsolete)

This report is required by law o result in an order to clease and					occio varse ade avi additional information	0180 DGA AN	ti-
	ES DEPARTMENT OF A			1. REGISTRATION NO. FORM APPRO- OME NO. 0579			
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				include CYTC 89 BE	OO42, Cust ld 122 DGEN RESEARCH & DEVELOPME ELLEVUE HILL ROAD T ROXBURY, MA 02132	Tec.	I with USDA
3. REPORTING FACILITY (List all I sheets if necessary.)	ocations where animals	were housed or used	in actual res	earch, testing, teac	hing, or experimentation, or held for	Ihese purposes. Atta	ch additional
		. FA	CILITY LOCA	TIONS (Sites)			
Foster Animal	Facility						
Brandeis Univ							
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	l (Altach adie	litional sheets if ne	cessary or use APHIS FORM 7023A.)	•	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	of animals upon xperiments, g, research, , or tests were ted involving panying pain or . to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests. The procedures producing pain animals and the reasons such c must be attached to this report)	or tests were ring pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An <i>explanation of</i> or distress in these frugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters	160	24		0	0		34
8. Rabbits							
9. Non-human Primates				·······			
10. Sheep					·····		
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12. Other Farm Animals							
13. Other Animals						· · · · · · · · · · · · · · · · · · ·	
ASSURANCE STATEMENTS							
 Professionally acceptable sta and following actual researc 	andards governing the i	care, treatment, and us	se of animals	, including approri	ate use of anesthetic, analgesic, and ch facility	tranquilizing drugs, pr	vor to, during,

2) Each principal investigator has considered alternatives to painful procedures

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Ecertify that the above is true, correct, and complete (7 U S C Section 2143)					
SIGNATU	ype or Print)	DATE SIGNED			
		11/8/00			
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This report is required by law in result in an order to cease and (See reverse side for additional information	tation Drive AN	at sut st t
	ES DEPARTMENT OF A PLANT HEALTH INSPEC		1. F	EGISTRATIO	N NO.	FORM APP OMB NO 10	RØVED \ 579-00364
				clude Zip (4-R-0047, Cust ld 455		uth USDA,
ANNUAL REPOR	T OF RESEA R PE OR PRINT)			2	RIAD PHARMAGEUTICALS, INC. 16 LANDSDOWNE STREET CAMBRIDGE, MA 02139		
3. REPORTING FACILITY (List all b sheets if necessary.)	ocations where animals	were housed or used i	n actual research	, testing, teac	hing, or experimentation, or held for th	ese purposes. Attac	ch additional
		FAC	CILITY LOCATION	S (Sites)			
Pharmacology Lab	oratory						
						· · · · · · · · · · · · · · · · · · ·	
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adidition	al sheets il ne	cessary or use APHIS FORM 7023A.)		
A Animais Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranguilizing drugs were used		E. Number of animals upon which le experiments, research, surgery or conducted involving accompanyir to the animals and for which the in anesthetic, analgesic, or tranquili, have adversely affected the proceinterpretation of the teaching, resexperiments, surgery, or tests. (A the procedures producing pain or animals and the reasons such drimmust be attached to this report).	tests were Ig pain or distress use of appropriate zing drugs would edures, results, or earch, n explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats				······			
 Guinea Pigs Hamsters 				- <u></u>			
3. Rabbits			84				84
9. Non-human Primates							
IO. Sheep				·····			
11. Piqs		,					
12. Other Farm Animals							
13. Other Animals							
ASSURANCE STATEMENTS							
	andards governing the	care, treatment, and u	se of animals, inc	uding approvi	ate use of anesthetic, analgesic, and tr	anquilizing drugs, pr	ior to, during,

3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

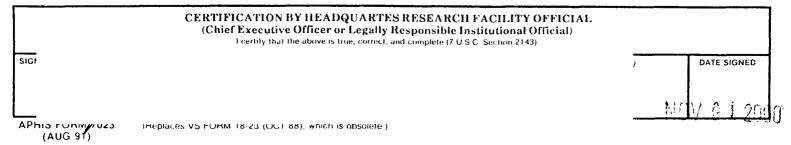
CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
		11/21/00			
S VS FORM 18-23 (OCT 8	38), which is obsolete (

This report is required by law in result in an order to cease and i				Sectorerse addition additional information	UTRE DEA AN	$\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right)$	
	ES DEPARTMENT OF A LANT HEALTH INSPEC			1. REGISTRATION	NO.	FGRM APE OMB NO 0	RCVED 579-0036
	الحر			2. HEADQUARTEF	14-R-0050, Cust ld 135		USDA,
ANNUAL REPOR (TY	T of Resear (Pe or Print)	CH FACILITY		· •	BOSTON COLLEGE OFFICE OF RESEARCH ADMIN. MCGUINN HALL 600 CHESTNUT HILL, MA 02167	NOV -7	2000
3. REPORTING FACILITY (List all le sheets if necessary)	ocations where animals	were housed or used i	in actual resi	earch, testing, leach	ning, or experimentation, or held for th	ese purposes. Atta	ch additional
		FAC	CILITY LOCA	TIONS (Siles)			
Higgins Hall	•			McGui	nn Hall		
REPORT OF ANIMALS USED BY OF		RESEARCH FACILITY	(Attach adiu	litional shoets if no	cessary or use APHIS FORM 7023A)	<u> </u>	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number which e teaching surgery conduct accomp distress and for anesthe	of animals upon xperiments, or tests were ed involving anying pain or to the animals which appropriate lic, analgesic, or izing drugs were	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyin to the animals and for which the i anesthetic, analgesic, or tranquili have adversely allected the proceinterpretation of the teaching, resexperiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dramust be attached to this report).	aching, lests were g pain or distress use of appropriate zing drugs would edures, results, or earch, n explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats					······································		
6. Guinea Pigs		· · · · · · · · · · · · · · · · · · ·					
7. Hamsters		. <u></u>					
8. Rabbits	0	3		0	0		3
9. Non-human Primates					······································		
10. Sheep							
11 Pigs							
12. Other Farm Animals							
13. Other Animals							
ASSURANCE STATEMENTS					te use of anesthetic analoesic and tr		

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures

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	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION NO.			FORM APP OMB NO 0	
	ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) REPORTING FACILITY (List all locations where animals were housed or used in actual r			2. HEADO include (b)(6), (b)(7)c BIOGEN, INC. DEVELOPMENT OPERATIONS 12 CAMBRIDGE CENTER CAMBRIDGE, MA 02142				
3. REPORTING FACILITY (List all li sheets if necessary.)	ocations where animals	were housed or used	in actual res	earch, testing, teac	hing), or experimentation, or held for th	ese purposes. Atta	ch additional
		FA	CILITY LOCA	TIONS (Sites)				
Site I: Res	earch Depa	artment						
Bui	lding Bio	VI						
REPORT OF ANIMALS USED BY O		F RESEARCH FACILITY	(Attach adio	litional sheets if ne		sary or use APHIS FORM 7023A)		_
A. Animals Covered By The Animat Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	of animals upon xperiments, g, research, , or tests were ted involving bailying pain or : to the animals which appropriate stic, analgesic, or izing drugs were	nents, experiments, research, surgery of rests earch, conducted involving accompanying pa sts were volving have adversely affected the procedure e animals adversely affected the procedure interpretation of the teaching, research experiments, surgery, or tests (An exp the procedures producing pain or dist		tests were log pain or distress use of appropriate zing drugs would edures, results, or learch, n explanation of r distress in these	F. TOTAL NO OF ANIMAL: (Cois. C + D + E)
4. Dogs								
5. Cats								
6. Guinea Pigs								
7. Hamsters				5				5
8. Rabbits								L
9. Non-human Primates								
10. Sheep								
11. Pigs								
12. Other Farm Animals								
3. Other Animals								
<u></u>								
ASSURANCE STATEMENTS	4						····	·

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lectify that the above is true, correct, and complete (7 USC Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
	/20/00

This report is required by law (7 result in an order to cease and c	USC 2143) Failure to desist and to be subject	report according to th to penalties as provid	e regulation led for in Se	is can iction 2150.	See reverse side for additional information.	Interagency Rep 0180-DOA-AN	ort Control No
	ES DEPARTMENT OF A PLANT HEALTH INSPEC		•	1. REGISTRATION	NO.	FORM APP OMB NO. 0	
	د.	··· ·	.	2. HEADQUAF 1. include Zip	4-R-0054. Cust ld 471		with USDA,
ANNUAL REPOR (TY	R T OF RESEAR (PE OR PRINT)	CH FACILITY		51	.O. BOX 58 3 S. ROYALSTON ROAD OYALSTON, MA 01368		
3. REPORTING FACILITY (List all lo sheets if necessary.)	ocations where animals	were housed or used	in actual res	earch, lesting, leac	hing, or experimentation, or held for t	hese purposes. Atta	ch additional
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STE I - IBuildu 585-Royalitur Rd	rg (2 Round	\mathcal{O}					
585-Royalsturnd	, Royalston	Ma 0136	68				
			l (Attach adı	ditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were	E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proo- interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	or tests were ing pain or distress a use of appropriate lizing drugs would cedures, results, or esearch, (An explanation of or distress in these rugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs					1		
5. Cats							
6. Guinea Pigs		······································			- *		
7. Hamsters							
8. Rabbits	_	205					205
9. Non-human Primates							
10. Sheep							
11. Pigs							
12. Other Farm Animals	+	7					7
13. Other Animals		· · · · · · · · · · · · · · · · · · ·			,,		
ASSURANCE STATEMENTS							
1) Professionally acceptable sta					ate use of anesthetic, analgesic, and t	ranquilizing drugs, p	rior to, during,
and following actual researc 2). Each principal investigator h				owed by this resear	ch tacility.		
 This facility is adhering to th principal investigator and ap 	ne standards and regula oproved by the Institutio	tions under the Act, and onal Animal Care and I	nd it has req Use Commit	tee (IACUC) A sun	ns to the standards and regulations b innary of all such exceptions is atta exceptions, as well as the species and	ached to this annua	al report. In
		-		·	dequate veterinary care and to overse		
					II FACILITY OFFICIAL Institutional Official)		

E certify that the above is true, correct, and complete (7.U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or

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IAL (Type or Print)	DATE SIGNED

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	BU DEMONTMENT OF D PLANT HEALTH INSPEC			таныстарын 1-4-	чы. R-0056, CustId475	مارين الرفاني ال - الرارا المالي	
ANNUAL REPOF (TY	RT OF RESEAF (PE OR PRINT)		ov 17	2. HEADOUARTE include Zip Cod (b)(6), (b) 2000 EPIX 71 R	RS RESEARCH FACILITY Name and Ad	dtess, as regisfere	1 4 111 JSDA,
3. REPORTING FACILITY (List all I sheets if necessary.)	ocations where animals	were housed or used	in actual rese	arch, testing, leac	thing, or experimentation, or held for the	se purposes. Atta	ch additional
		FA	CILITY LOCAT	NONS (Sites)			
EPIX Medical	- Animal Fa	acility &					······
Pharmacolgy							
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adıd	itional sheets if ne	cessary or use APHIS FORM 7023A)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthelic, analgesic, or tranquilizing drugs were used.		E. Number of animals upon which lear experiments, research, surgery or to conducted involving accompanying to the animals and for which the us anesthetic, analgesic, or tranquiliz have adversely affected the procec- interpretation of the teaching, rese experiments, surgery, or tests. (An the procedures producing pain or animals and the reasons such drug must be attached to this report).	esis were g pain or distress se of appropriate ing drugs would dures, results, or arch, explanation of distress in these	F. TOTAL NO. OF ANIMALS (Cois. C + D + E)
4. Dogs	0	0	()	00		0
5. Cats	0	0	()	0		0
6. Guinea Pigs	31	0	118	3	0		118
7. Hamsters	0	0	()	0		0
8. Rabbits	2	0	28	3	<u> </u>		28
9. Non-human Primates	0	0)	0		0
10. Sheep	0	0	()	0		0
11. Pigs	0	0)	0		0
12. Other Farm Animals	0	<u> 0 </u>	0		0		0
13. Other Animals	0	0	C		0		0
ASSURANCE STATEMENTS							

Professionally acceptable standards governing the care, treatment, and use of animals, including approvate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility. 1)

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(Chief Executive Officer or	UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) 4. correct, and complete (7 U S C. Section 2143)	
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

(reproces you only reasoned), which is obsolete)

11/15/00

if as report in required by law (result in an order to cease and	7 crist, 2143) - Fansie to desist and to be subjec	report according to it. Eto penalties as provid	ie regulations can led for in Section) F2150	Vec reverse side (sa additional information	6180-DOA-AN	and an electron function of the second s
UNITED STA ANIMAL AND	TES DEPARTMENT OF A PLANT HEALTH INSPEC	GRICULTURE	1.	REGISTRATION	NO.		`OVED -1, ℃ '9-0036 - \
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) Ergo Science Development Corporation				2. HEADOUAR include Zip ((b)(6), (b)(7)c ERGO SCIENCE DEVELOPMENT 43 HIGH ST NORTH ANDOVER, MA 01845 Status: Inactive			
3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used	in actual researc	h, testing, teach	hing, or experimentation, or held lo	r these purposes. Atta	ch additional
		FAC		IS (Sites)			
100 First Avenue, Cha	rlestown, Massa	chusetts 02129-	2051			<u> </u>	
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adidilio	nal sheets if nei	cessary or use APHIS FO RM 7023A) ·	
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving ito pain, distress, or use of pain- relieving drugs.	anesthetic, a	iments, search, lests were nvolving ng pain or	E. Number of animals upon whice experiments, research, surger conducted involving accompa to the animals and for which anesthetic, analgesic, or tranchave adversely affected the p interpretation of the teaching experiments, surgery, or tests the procedures producing pa animals and the reasons such must be attached to this report	y or tests were nying pain or distress he use of appropriate julizing drugs would rocedures, results, or research, (An explanation of in or distress in these or drugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs							0
5. Cats		2					0
6. Guinea Pigs							0
7. Hamsters				•	100 First Av		0
8. Rabbits			-		tts in the sun	nmer	0
9. Non-human Primates	- 	1999. V			-	nor	0
10. Sheep	con	ducted re	search	or exp	eriments on an	imals	0
11. Pigs	for	the fisca	l year	Octob	er 1, 1999 thr	ough	0
12. Other Farm Animals	Sep	tember 30), 2000.				0
····		h			······		0
13. Other Animals							0
							0
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ASSURANCE STATEMENTS							
and following actual researc 2) Each principal investigator f 3) This facility is adhering to th principal investigator and a addition to identifying the l4	ch, teaching, testing, sur has considered alternation has considered alternation has standards and regula pproved by the Institution ACUC-approved exception or this research facility for CERTIFICA	gery, or experimentati ves to painful procedu- tions under the Act, an inal Animal Care and L ons, this summary inclu- has appropriate author TION BY HEAT	on were followed res id it has required Use Committee (I) udes a brief expla- rity to ensure the OQUARTES	by this researc that exception ACUC). A sum anation of the e provision of ad RESEARCI	is to the standards and regulations mary of all such exceptions is a exceptions, as well as the species a dequate veterinary care and to over H FACILITY OFFICIAL	be specified and explain trached to this annual nd number of animals a	ned by the 1 report. In flected
	(Chief Ex I ce	ecutive Officer of rtify that the above is	or Legally Re true, correct, and	:sponsible I f complete (7 U	Institutional Official) ISC Section 2143)		
SIGNATURE OF C.E.O. OR INSTITU				'LE OF C.E.O. C	DR INSTITUTIONAL OFFICIAL (Type	e or Print) I	DATE SIGNED
APHIS FORM 7023 (Re	places VS FORM 18-	23 (OCT 88), which i	is obsolete.)				

result in an order to ceal r and	desist and to be subject	This inport is required by law (7 USC 2143). Failure to report according to the regulation result in an order to cept in and desist and to be subject to penalties as provided for in S				0180-00A-AN	xont Contrial Nu ↓	
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION NO. FORM APPROVED 1. (
	· _			14-R-∩(2. HEADQUARTE include Zip Co	RS RESEARCH FACILITY (Name and			
ANNUAL REPOR			•	Smith Co				
	(PE OR PRINT)				cience Center			
				Northam	pton, MA 01063			
3. REPORTING FACILITY (List all	locations where animals	were housed or used	in actual res	earch, lesting, teac	ching, or experimentation, or held for	these purposes. Atta	ich additional	
sheets if necessary.)		FΔ		TIONS (Siles)			<u></u>	
Sabin-Reed Hall, (Clark Scienc	e Center						
COOT OF ANIMAL SUISED BY O		PECEARCH EACH IT	(Allach with	dikonul shuats il us	cussion or use APHIS FORM 7023A.)			
A.	8. Number of	C Number of	Y	r of animals upon	E. Number of animals upon which		F.	
Animals Covered	animals being bred,	animals upon which leaching,	which e	g, research,	experiments, research, surgery conducted involving accompany	ing pain or distress		
By The Animal Wellare Regulations	conditioned, or held for use in	research, experiments, or	surgery	, or tests were ted involving	to the animals and for which the anesthetic, analgesic, or trainqu		TOTAL NO OF ANIMAL	
	leaching, lesting, experiments,	tests were conducted	accomp	anying pain or	have adversely affected the pro interpretation of the teaching, r		-	
·	research, or surgery but not	involving no pain, distress, or	and lor	which appropriate	experiments, surgery, or tests. The procedures producing pain		(Cols. C D + E)	
	yet used for such purposes.	use of pain- relieving drugs.		itic, analgesic, or lizing drugs were	animals and the reasons such o must be attached to this report)	lrugs were not used		
4. Dogs				<u> </u>				
5. Cats								
6. Guinea Pigs								
7. Hamsters	32	378		6			384	
8. Rabbits								
9. Non-human Primates		· · · · · · · · · · · · · · · · · · ·			\ 			
10. Sheep						····		
11. Pigs					······································			
12. Other Farm Animals								
13. Other Animals								
Ferrets		2		23			25	
Pine Voles	31	6					6	
Prairie Voles	20	96				<u></u>	96	
1) Protessionally acceptable st	andards governing the c	are, treatment, and us	se of animals	, including approrta	ate use of anesthetic, analgesic, and	ranguilizing drugs, pi	nor to, during,	
and following actual researc				wed by this researd	ch lacility .			
2) Each principal investigator h					•			
principal investigator and ap	proved by the Institutio	wal Annual Care and L	Jse Committ	ee (IACUC) A sum	is to the standards and regulations b imary of all such exceptions is atta exceptions, as well as the species and	ached to this annua	Freport, In	
4) The attending veterinarian to animal care and use	or this research facility h	ias appropriate author	nty to ensure	the provision of ac	lequate veterinary care and to overse	e the adequacy of off	ner aspects of	
······································	(Chief Ex	ecutive Officer of	or Legally	Responsible	H FACILITY OFFICIAL Institutional Official)	······································		
SIGN	1 ce	rtily that the above is .	true, correct	, and complete (7 U	ISC Section 2143)	T	DATE SIGNED	
						· Print)	JATE SIGNED	
							11/28/00	
	_					E E	/ / -	

	ES DEPARTMENT OF		1. REGISTRATION	N NO.	
ANIMAL AND P	LANT HEALTH INSPE	CTION SERVICE	14-R-00	FORM	APPRQVED 0 0579-0036
				RS RESEARCH FACILITY (Namu and Address, as registe	
			include Zip Cod	de)	or and with USDA
CONTINUATION	SHEET FOR	ANNUAL REPO	ORT		
OF R	ESEARCH FA	CILITY	Smith C	ollege	
(TYPE OR PRIN	(T)	Clark S	cience Center	
				pton, NA 01063	
			l		
EPORT OF ANIMALS USED BY OF					
•	8 Number of animals being	C Number of animals upon	D Number of animals upon which experiments	E. Number of annuals upon which feaching, experiments, research, surgery or tests were	F
Animals Covered By The Animal	bred, conditioned, or	which leaching,	leaching, research	conducted involving accumpanying pain or distres to the annuals and for which the use of appropriat	- ſ
Wellare Regulations	held for use in	research, experiments, or	surgery, or lests were conducted involving	anesthetic, analyesic, or tranquilizing drugs would	
	teaching, lesting, experiments,	lesis were conducted	accompanying pain or	have adversely affected the procedures, results, or interpretation of the teaching, research.	
	research, ur	involving no	distress to the animals and for which appropriate	experiments, surgery, or tests. (An explanation of	
12 &/OR 13 Other	surgery but not yet used for such	pain, distress, or use of pain-	anesthetic, analgesic, or tranquilizing drugs were	The procedures producing pain or disfless in these animals and the reasons such drugs were not use	
(List by species)	purposes	relieving drugs	used	must be attached to this report	
Meadow Voles	43	21			2
Deer Mice		281	6		287
White-footed Mice		103			103
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				·····	
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	1				
	1				
SURANCE STATEMENTS					
JUNARUE STATEMENTS					
				tuse of anesthetic analgesic and tranquilizing drugs, p	mur to, during
and following actual research, I	eaching, lesting, surge	ery, or experimentation	were sunowed by this research	lacitity	
Each principal investigator has	considered atternative	s to painful procedures			
principal investigator and appro-	wed by the Institution.	al Animal Care and Use	Committee (IACUC) A sumin	to the standards and regulations be specified and expla any of all such exceptions is attached to this annu-	al report
-				ceptions as well as the species and number of animals a	
 The attending veterinarian for it unimul care and use 	his research facility ha	s appropriate authority	to ensure the provision of oder	quale vélennary care and to oversee the adequacy of of	her uspects ."
	CERTIFICA	FION BY HEAD	UARTES RESEARCH	FACILITY OFFICIAL	
	(Chief Exe	cutive Officer or	Legally Responsible tr	nstitutional Official)	
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					1/28/000

APHIS FORM 7023A (AUG 91)

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field exists required by law result in an order to clease and					and next actual to additional information	0139.0004.4 M	in tu. Tu.
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION 14 2. HEADOU/	NO. -R-0062 0	FORM APP OMB NO 0	
ANNUAL REPOR	RT OF RESEAF (PE OR PRINT)	007 1 20 RCH FACILITY	00	include Zi P.(AM	D. BOX 513 HERST, MA 01004		
3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used	in actual res	earch, testing, leac	hing, or experimentation, or held for	these purposes. Atta	ch additional
·······		FAG	CILITY LOCA	TIONS (Sites)			
Research Rab	bit Facili	ty		Resea	arch Pig Facilit	у	
Rabbit Breed							·
			l (Attach adio	litional sheets if ne	cessary or use APHIS FORM 7023A)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	ol animals upon xperiments, g, research, , or lests were ted involving anying pain or . to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompan to the animals and for which th anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests. the procedures producing pain animals and the reasons such must be attached to this report.	or tests were ying pain or distress e use of appropriate illizing drugs would ocedures, results, or research, (An explanation of or distress in these drugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs						·	
7. Hamsters							
8. Rabbits	350		20	0			200
9. Non-human Primates							
10. Sheep					·····		
11. Pigs		13					
12. Other Farm Animals							
13. Other Animals						· · · · · · · · · · · · · · · · · · ·	
ASSURANCE STATEMENTS							
	andards governing the	care, treatment, and u	se of animals	, including approri	ate use of anesthetic, analgesic, and	tranquilizing drugs, pr	ior to, during,

2) Each principal investigator has considered alternatives to painful procedures.

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> CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Leertify that the above is true, correct, and complete (7 USC Section 2143)

> > or Print)

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DATE SIGNED

Crus og ort is required by law or result in an order to cease and o	ر () بر موجد () در () د desist and to be subject	o por according to the To penalties as provid	e explodeda led for lo Sec	san Hon 2150	tee a worse and the additional information	6186 DOA 44	19 10 1 9 1
	ES DEPARTMENT OF A PLANT HEALTH INSPEC		ſ	1. REGISTRATION			ROVED 579-0036
	PE OR PRINT)			2. HEADO Include EMBF 323 A WILM	RYOTECH LABORATORIES, INC. NDOVER STREET INGTON, MA 01887		with USDA,
3. REPORTING FACILITY (List all le sheets if necessary.)	ocations where animals				ning, or experimentation, or held for the	ese purposes. Atta	ch additional
	· · · _ ···	FAC	CILITY LOCAT	IONS (Siles)			
Same C	is Abou	e					<u>,</u>
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Atlach adid	ilional sheets if ne	cessary or use APHIS FORM 7023A)		
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pam- relieving drugs.	D. Number which ex teaching surgery, conduct accompa distress and for anesthel	of animals upon speriments, i, research, or tests were ed involving anying pain or to the animals which appropriate tic, analgesic, or zing drugs were	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquili- have adversely affected the proce- interpretation of the teaching, res- experiments, surgery, or tests. (A the procedures producing pain of animals and the reasons such dri- must be attached to this report).	aching, lests were g pain or distress use of appropriate zing drugs would edures, results, or iearch, n explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters	90	543					543
8. Rabbits						<u></u>	
9. Non-human Primates							
10. Sheep							·
11. Pigs							
12. Other Farm Animals							
13. Other Animals							
ASSURANCE STATEMENTS			on of animals	including upper	ate use of anesthetic, analoesic, and h		

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, durin and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2). Each principal investigator has considered alternatives to painful procedures

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED

This report is required by law if esoft in an order to cease and c	Unit 21457 Fuilure to desist and to be subject	report according to th 10 penalties as provid	e reguarios led for in Se	s can rtion 2350	See reverse side for additional information	oten gen genege 0180-DGA AN	Citi-
UNITED STATES DEPARTMENT OF AGRICULTURE				1. REGISTRATION NO.		FORM APPROVED OMB NO 0579-0036	
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				2. HEADQUA include Zir (b)(6), (b)(7)C WORCESTER POLYTECHNIC INSTITUTE 100 INSTITUTE ROAD WORCESTER, MA 01609			
3. REPORTING FACILITY (List all lo sheets if necessary.)	ocations where animals	were housed or used	in actual res	earch, testing, teacl	hing, or experimentation, or held for t	hese purposes. Atta	ch additional
······································		FAC	CILITY LOCA	TIONS (Sites)	·····		
WPI Animal Facil	ity, SL 313-						
REPORT OF ANIMALS USED BY OF		BESEARCH FACH IT	(Attach auti	litional shoets if ne	cessary or use APHIS FORM 7023A)	·	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number which e teachin surgery conduc accomp distress and for anesthe	of animals upon xperiments, g, research, , or tests were ted involving anying pain or . to the animals which appropriate tic, analgesic, or tizing drugs were	E. Number of animals upon which experiments, research, surgery (conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, ri- experiments, surgery, or tests the procedures producing pain animals and the reasons such o must be attached to this report)	teaching, or lests were ying pain or distress e use of appropriate litzing drugs would cedures, results, or esearch, (An explanation of or distress in these trugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters							
8. Rabbits		······			<u></u>		
9. Non-human Primates							
10. Sheep							
11. Pigs							
12. Other Farm Animals							
13. Other Animals							
					••••	· · · · · · · · · · · · · · · · · · ·	
ASSURANCE STATEMENTS	***************************************						•
and following actual researc 2) Each principal investigator h 3) This facility is adhering to th	h, teaching, testing, su las considered alternati e standards and regula	rgery, or experimentatives to painful procedu tions under the Act, a	ion were foll ires: nd it has req	owed by this resear	ate use of anesthetic, analgesic, and ch facility. is to the standards and regulations b mary of all such exceptions is att	e specified and expla	med by the

addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lectury that the above is true, correct, and complete (7 USC Section 2143)						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
			11/14/00			
APHIS FORM 7023 (AUG 91)	(Replaces VS FORM 18-23 (OCT 88),	which is obsolute)	,			

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This report is required by F can	aw 17 USC 21431 - Failure	to report according to the	e regulations			icned form for al information	Interagency R	eport Control No
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE				1. CERTIFICAT CUSTOME		14-R-0070 729		APPROVED NO. 0579-0036
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				Focal, Inc Clinical & 4 Maguire Lexington Telephone	Regulato Road , MA 021 e: (781) -	73 280-7800		
3. REPORTING FACILITY (actual research, testi	ng, or experimentati	on, or held for	these purposes. Attach addit	tional sheets if neo	cessary)
FOCALINC., Legington.	MA MAGUIN	FACILIT	TY LOCATIONS (S	Sites) - See Atach	ed Listing			
			CH FACILITY (Att	tach additional s	heets if nec	essarv or use APHIS Fo	rm 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of ani upon which experiments, to research, sur- tests were cor involving accompanying distress to the and for which appropriate an	nals E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the		were n or distress appropriate ugs would , resuits, or experiments, e procedures als and the	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)	
4. Dogs				· ·				
5. Cats								<u> </u>
6. Guinea Pigs								
7. Hamsters						× / • • • • • • • • • • • • • • • • • •		
8. Rabbits	•······		12					12
9. Non-human Primate								
10. Sheep								
11. Pigs								
12. Other Farm Animals								
13. Other Animals								
ASSURANCE STATEMENTS	3							
	able standards governing the ning, testing, surgery, or exp				iestetic, analgi	esic, and tranquilizing drugs, p	prior to, during, an	d following

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED 121 6

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frastable to steppined by law in result in an order to cease and o	classict \$50. Factor to Jesist and to be subject	resont according to the To penalties as provid	 regulations ed for in Sei 	Lican Stion 2150	See révolue due tor additional information	10180-004 AN 0180-004 AN	et in de la tra Cer
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	NO.	(EUO++ + Db	ROVED / 579-0036
ANNUAL REPOR (TY	T OF RESEAR 'PE OR PRINT)	CH FACILITY		JOS	E-0071, Cust Id 128 (b)(7)C SLIN DIABETES CENTER INC. E JOSLIN PLACE ISTON, MA 02215	(1977) 1997 - 1997)	l with USDA
3. REPORTING FACILITY (List all) sheets if necessary.)	ocations where animals	were housed or used i	n actual res	earch, testing, teacl	ning, or experimentation, or held for	these purposes. Atta	ch additional
		FAC	LITY LOCA	TIONS (Siles)			
Elliot P. Joslin	Research Fac	cility					
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Numbe which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving aanying pain or s to the animals which appropriate stic, analgesic, or lizing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompan- to the animals and for which the anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests. the procedures producing pain animals and the reasons such of must be attached to this report)	teaching, or tests were ying pain or distress e use of appropriate ilizing drugs would icedures, results, or esearch, (An explanation of or distress in these drugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters						·, ,, , · · · · · · · ·	
8. Rabbits							
9. Non-human Primates							
10. Sheep						····	
11. Pigs		201					201
12. Other Farm Animals							
13. Other Animals							
ASSURANCE STATEMENTS					ate use of anesthetic analoesic and		· · · · · · · · · · · · · · · · · · ·

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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I certify that the above is true, correct, and complete (7.U.S.C. Section 2143)

DATE SIGNED

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	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	NO.	FORM APP	PROVED 579-0036
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				include Zij CA 31: P.I	R-0073, Cust Id 749 PRALOGICS, INC. 5 CZESKI ROAD 0. BOX 236 ARDWICK, MA 01037		with USDA
3. REPORTING FACILITY (List all sheets it necessary)	locations where animals	were housed or used	in actual res	earch, testing, teac	hing, or experimentation, or h	eld for these purposes. Atta	ch additional
		FAC	CILITY LOCA	TIONS (Sites)			
235 1315 (<u>zeski Roa</u>	9					
Hardwick 1	MA 0103	7					<u></u>
REPORT OF ANIMALS USED BY C		and the second se	(Attach adi	ditional sheets if ne			
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving banying pain or s to the animals which appropriate stic, analgesic, or lizing drugs were	to the animals and for w anesthetic, analgesic, or have adversely affected interpretation of the tear experiments, surgery, or the procedures producir	urgery or tests were ompanying pain or distress hich the use of appropriate tranquilizing drugs would the procedures, results, or ching, research, tests. (An explanation of ng pain or distress in these s such drugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	NA						
5. Cats	NA			····			
6. Guinea Pigs	NA					A	
7. Hamsters	NA					······	
8. Rabbits	Ø	141	93				234
9. Non-human Primates	NA						
10. Sheep	Ø	67	5	• 			72
11. Piqs	NA	<u></u>					
12. Other Farm Animals					·	-	
GOATS	42	44	19	·			105
13. Other Animals							
ASSURANCE STATEMENTS							

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, leaching, testing, surgery, or experimentation were followed by this research facility.

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E certify that the above is true, correct, and complete (7 USC Section 2143)

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DATE SIGNED

11/27/00

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	ES DEPARTMENT OF A PLANT HEALTH INSPEC		1. REGISTRATION	1 NO.	FÜRM APPROVED 0579-0036		
ANNUAL REPOR (TY	T OF RESEAF PE OR PRINT)		include 2 (b)(GEN P.O	2. HEADOU 14-R-0074, Cust ld 756 include 2 (b)(6), (b)(7)c GENZYME TRANSGENICS CORPORATION P.O. BOX 202, 87 SPENCER ROAD CHARLTON DEPOT, MA 01509			
3. REPORTING FACILITY (List all le sheets if necessary)	ocations where animals	were housed or used	in actual research, testing, teac	hing, or experimentation, or held for th	ese purposes. Attach additional		
		FA	CILITY LOCATIONS (Sites)				
Site 1: GTC Fa:							
the second s			·····	cussary or use APHIS FORM 7023A)			
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or tranquili have adversely affected the proce interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dri- must be affached to this report).	tests were ng pain or distress use of appropriate zing drugs would edures, results, or iearch, in explanation of r distress in these t TOTAL NO OF ANIMALS OF COLS D + E)		
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters							
8. Rabbits							
9. Non-human Primates					·····		
10. Sheep							
11. Pigs					·		
12. Other Farm Animals							
<u>Goats (Charlto</u>	n) 706		1209		1209		
13. Other Animals							
ASSURANCE STATEMENTS							
 Professionally acceptable sta and following actual research 	andards governing the h, teaching, testing, su	care, treatment, and u rgery, or experimental	se of animats, including approri ion were followed by this resear	ate use of anesthetic, analgesic, and tr ch facility.	anquilizing drugs, prior to, during,		

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This report is required by law (result in an order to cease and	7 USC 2143) Failure to desist and to be subject	report according to the to penalties as provid	e regulations can ed for in Section 2150.	See reverse side for Interagency Re additional information. 0180-DOA-AN	port Control No
ANNUAL REPOR	TES DEPARTMENT OF A PLANT HEALTH INSPEC RT OF RESEAR YPE OR PRINT)	JAN 17	include Zip EL	INO. R-0078, Cust ld 138 JNICE KENNEDT JHRIVER CENTER 10 TRAPELO ROAD ALTHAM, MA 02254	ROVED i79-0036 with USDA
3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used i	n actual research, testing, teac	hing, or experimentation, or held for these purposes. At	tach additional
		FAC	CILITY LOCATIONS (Siles)		
E.K. Shriver (Center Anii	mal Facil:	ity		
REPORT OF ANIMALS USED BY C	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMALS (Cois. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	00	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	00	0	0	0
13. Other Animals	0	0	0	0	0
ASSURANCE STATEMENTS					

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				

This report is required by law of result in an order to cease and d	resist and to be subject	report according to the to penalties as provid	e negatation; ed for in Sec	, can tion 2150	See reverse side for additional information	0180/DOA-44	an an an the California
UNITED STATI ANIMAL AND P	ES DEPARTMENT OF A	GRICULTURE		1. REGISTRATION NO. EORN APPROVED 2. 0579-0036			
	د. در	1	•	2. HEAD 14-R-0 include	079, Cust ld 760 NNIUM PHARMACEUTICALS, INC		with USDA,
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				640 M	EMORIAL DRIVE BRIDGE, MA 02139		
3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used i	n actual resi	earch, testing, teac	hing, or experimentation, or held for th	ese purposes. Attac	ch additional
		FAC	LITY LOCA	TIONS (Sites)			
640 Memorial I	Drive			215	Sidney Street (Clos	ed as of 9	/00)
45 Sidney Stre	eet						
			(Attach adio	litional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	ol animals upon xperiments, g, research, , or lests were led involving anying pain or : to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyit to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proce interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dri must be attached to thus report).	tests were log pain or distress use of appropriate zing drugs would edures, results, or iearch, in explanation of r distress in these	F. TOTAL NO OF ANIMALS (Cois. C + D + E)
4. Dogs							
5. Cats						<u> </u>	
6. Guinea Pigs	0	68]	456	0		1554
7. Hamsters	0	0		4	0		4
8. Rabbits							
9. Non-human Primates							
10. Sheep							
11. Pigs							
12. Other Farm Animals							
13. Other Animals							
				<u> </u>			
ASSURANCE STATEMENTS	l	L					

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	f	DATE SIGNED				

SI

This report is required by law (7 USC 2143).	Failure to report according to the regulations can
result in an order to cease and desist and to be	subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE		1. REGISTRATION NO. 14-R-008	FORM APPRC OMB NO 0579		
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 3. REPORTING FACILITY (List all locations where animals were housed or used sheets if necessary)			 HEADQUARTERS RESE include Zip Code) University of Massau Research Foundation 600 Suffolk Street – Lowell, MA 01854 I in actual research, testing, teach 	ARCH FACILITY (Name and Address, as registered v chusetts Lowell 2 nd Floor South	Ũ
Weed Hall, South Car	mpus and Olsen B				
Center for Chronic Diseas	a Control Boom		ITY LOCATIONS (Sites	9	
Solomont Way, Univ. of	Massachusetts Lov	well, Lowell, MA	A 01854		
		,			
	OR UNDER CONTROL B. Number of	OF RESEARCH FACI	LITY (Attach additional sheets in D. Number of animals upon	(necessary or use APHIS FORM 7023A) E. Number of animals upon which teaching,	F.
A. Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	a nimals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs			! 		
5. Cats		;			
6. Guinea Pigs		1200			1200
7. Hamsters		1200			1200
8. Rabbits					
9. Non-human Primates		·····			
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Mice	100				100
Rats		35			35
ASSURANCE STATEMENTS					

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

ICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED 00

FORM 18-23 (OCT 88), which is obsolete)

Thus epochs thereof by low is result in an order to cease and s	ensional to be subject	equal al contract to for to penalties as provid	e e quadade ed for in Sec	ucan stion 2150	see, reverse lade bar and end of the provide additional sidormation 0180 DGA-AN	
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				1. REGISTRATION I 2. HEADOUARTERS include Zip Code	14-R-0082, Cust ld 140	Pa
3. REPORTING FACILITY (List all I sheets if necessary.)	locations where animals				ng, or experimentation, or held for these purposes. At	lach additional
				TIONS (Siles)	m	
					, Tupper Research Bldg.,	
Rehabilitation In	ist., bidg.,	and Fille A	cres k	abbilly an	d raims (rAR/r).	
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi	ditional sheets if nec	essary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but nol yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate alic, analgesic, or lizing drugs were	E. Number of animals upon which feaching, experiments, research, surgery or fests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs				96	<u></u>	96
5. Cats		2		3		5
6. Guinea Pigs				24		24
7. Hamsters		3				3
8. Rabbits		11	452			463
9. Non-human Primates						None
10. Sheep			6	5		65
11. Piqs		37	2	48		285
12. Other Farm Animals						
Cow				2		2
13. Other Animals						
Horse				24		24
ASSURANCE STATEMENTS						
1) Professionally acceptable st and following actual researc					te use of anesthetic, analgesic, and tranquilizing drugs,	prior to, during,

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
		12/06/00					
	Tufts-New England Medical Center, Inc.						
AF (AUG 91)	8), which is obsolete)						

This report is beginded by take or result in on order to cease and or	y all 214 in adam to exist and to be subject	equal according to the to penalties as provid	e regulations ed for in Sec	can tion 2150	tier o viter side lot additional information	0180 DCA AN	Ctor
	S DEPARTMENT OF A		[1. REGISTRATION		FORM APP OMB NO 0	
ANNUAL REPOR	T OF RESEAR PE OR PRINT)	CH FACILITY			14-R-0083. Cust Id 705 (b)(6). (b)(7) c NEW ENGLAND COLLEGE OF OF 424 BEACON STREET BOSTON, MA 02115	TOMETRY	'h USDA,
3. REPORTING FACILITY (List all lo sheets if necessary)	cations where animals	were housed or used i	n actual rese	arch, testing, leac	hing, or experimentation, or held for t	hese purposes. Atta	ch additional
· · · · · · · · · · · · · · · · · · ·		FAC	CILITY LOCA	TIONS (Sites)			
New England Colle 424 Beacon St., E	ge of Opton Buston, MA	oziis					
			/ (Attach adio	litional sheets if ne	cessary or use APHIS FORM 7023A.)	•	
A. Animals Covered By The Animat Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number which ei teaching surgery, conduct accomp distress and for anesthe	of animals upon speriments, g, research, or tests were ed involving anying pain or to the animals which appropriate tic, analgesic, or izing drugs were	E. Number of animals upon which experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquic have adversely affected the pro- interpretation of the teaching, in experiments.	teaching, or tests were ying pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these frugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats						,	
6. Guinea Pigs							
7. Hamsters				×			
8. Rabbits						<u>.</u>	
Maynusets 9. Non-human Primates	18	0	2	<u>ب</u>	0		26
10. Sheep							
11. Pigs							
12. Other Farm Animals							
Chizkens	21	U	14	8	0		148
13. Other Animals							
Rutz	127	0	210)	0		210
ASSURANCE STATEMENTS							

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
		11/0/2000			
APHIS FORM 7023 (Beolares VS FORM 18-23 (OCT 8	8) which is obsolute)	I			

This report is repaired by $aw\ell^2$ result in an order to clease and d	osci in tax in that in the east and to be subject	report according to the To penalties as provid	ed for its Section 21	150	bee reletue sobrial. additional information	bit name a tra- Cigo Scalan	Gai
	ES DEPARTMENT OF A		1. RE	1. REGISTRATION NO. FORM APPROVE OMB NO 0529.00			
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				ADOUAR lude Zip TU AS	1-R-0084 Cust ld 141 JFTS UNIVERSITY SSOCIATE PROVOST FOR RESEA		vith USDA
				MI	STITUTIONAL OFFICIAL EDFORD, MA 02155		
3. REPORTING FACILITY (List all lo sheets if necessary.)	cations where animals	were housed or used i	n actual research, I	lesting, teacr	ning, or experimentation, or held for th	iese parposes. Ana	
		FAC	LITY LOCATIONS	(Siles)			
		<u>, , , , , , , , , , , , , , , , , , , </u>					
REPORT OF ANIMALS USED BY OF	UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional	sheets if ne	cessary or use APHIS FORM 7023A.)	,	
A Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments,	C Number of animals upon which teaching, research, experiments, or tests were		ents, arch, its were olving pain or	E. Number of animals upon which te experiments, research, surgery of conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc- interpretation of the teaching, ret	r tests were ng pain or distress use of appropriate izing drugs would edures, results, or	F. TOTAL NO OF ANIMALS
	research, or surgery but not yet used for such purposes.	involving no pain, distress, or use of pain- relieving drugs.	distress to the and for which anesthetic, an tranquilizing d used	appropriate algesic, or	experiments, surgery, or tests // the procedures producing pain of animals and the reasons such dr must be attached to this report).	An explanation of or distress in these	(Cols. C + D + E)
4. Dogs	0	0	0		0		0
5. Cats	0	0	0		0		0
6. Guinea Pigs	0	0	0		0		0
7. Hamsters	0	0	18		0		18
8. Rabbits	0	0	0		0		0
9. Non-human Primates	4	30	0		0		34
10. Sheep	0	0	0		0	<u></u>	0
11. Pigs	0	0	0		0		0
12. Other Farm Animals	0	0	0		0	· · · _ · · · · · · · · · · ·	0
13. Other Animals rats	0						1264
mice pigeons	0	51	0		0		8 <u>12</u> 51
gerbil	0	0	71		0		71
birds starli	ngs 72	0	25		0	····	97
ASSURANCE STATEMENTS		•					••••••••••••••••••••••••••••••••••••••

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SIGNATURE OF C.F.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL CONCAST PUNIT

Trochessic singlered by taw or result in an order to sease and r					additional information	UTRE COA AN	(Jon
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION NO. FORM APPROVED			
		March 24	2000	2. HEADOUAF 1. include Zip	4-R-0085, Cust ld 706		vith USDA
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				CIRCE BIOMEDICAL, INC. SWINE UNIT #2 200 WESTBOROUGH ROAD NORTH GRAFTON, MA 01536			
3. REPORTING FACILITY (List all lo sheets it necessary.)	ocations where animals	were housed or used i	n actual res	earch, testing, leac	hing, or experimentation, or held for t	lhese purposes. Attai	ch additional
·····		FAC	CILITY LOCA	TIONS (Sites)			
SwINE UNI	TI N	GRAPton,	MA				
	/	,					
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Altach adio	ditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, or lests were ted involving banying pain or s to the animals which appropriate tic, analgesic, or lizing drugs were	E. Number of animals upon which the experiments, research, surgery, conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquinhave adversely affected the provinterpretation of the teaching, resperiments, surgery, or tests. If the procedures producing pain animals and the reasons such a must be affached to this report).	or tests were ring pain or distress e use of appropriate lizing drugs would cedures, results, or esearch, (An explanation of or distress in these trugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs							
7. Hamsters							
8. Rabbits							
9. Non-human Primates							
10. Sheep							@ 21NON DO
11. Pigs	96	0		51	0		247
12. Other Farm Animals				·····	``````````````````````````````````````		151
13. Other Animals							
ASSURANCE STATEMENTS							

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SIG		FFICIAL (Type or Print)	DATE SIGNED			
			11/21/00			

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	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1 REGISTRATION	INO. - 0006 Cust 10 142		ROVED 579-0036
ANNUAL REPOR (TY	RT OF RESEAR PE OR PRINT)				OTEK, INC. I-C OLYMPIA AVENUE NO NOBURN, MA 01801		with USDA
B. REPORTING FACILITY (List all I sheets if necessary)	ocations where animals	were housed or used	in actual res	earch, testing, teac	hing, or experimentation, or held for the	ese purposes. Atta	ch additional
		FA	CILITY LOCA	TIONS (Siles)		· · · · · · · · · · · · · · · · · · ·	
175-H New Boston :	Street, Wobu	irn, MA 018	801				
EPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Atlach adio	litional sheets if ne	cessary or use APHIS FORM 7023A)	•	
A Animals Covered By The Animal Weltare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	of animals upon xperiments, g, research, , or tests were ted involving anying pain or to the animals which appropriate dic, analgesic, or izing drugs were	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquili, have adversely affected the proce- interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain or animals and the reasons such dru- must be attached to this report).	tests were Ig pain or distress use of appropriate zing drugs would dures, results, or earch, n explanation of r distress in these	F. TOTAL NO. OF ANIMALS (COIS. C + D + E)
L Dogs		· · · · · · · · · · · · · · · · · · ·					
5. Cats							
5. Guinea Pigs							
. Hamsters							. <u> </u>
Rabbits		92					92
. Non-human Primates							
0. Sheep							
1. Pigs		· · · · · · · · · · · · · · · · · · ·					
2. Other Farm Animals							
3. Other Animals							
Rats		70					70
Mice		240					240
ASSURANCE STATEMENTS	l						
 Protessionally acceptable st and following actual researc Each principal investigator h This facility is adhering to th 	sh, teaching, testing, su has considered alternati he standards and regula	rgery, or experimentat ives to painful procedu itions under the Act, a	ion were folk ires nd it has req	owed by this resear uired that exception	ate use of anesthetic, analgesic, and trach trach lacility. Ins to the standards and regulations be Innary of all such exceptions is attac	specified and expla	ned by the

4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lectury that the above is true, correct, and complete (7 USC Section 2143)						
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
		10/26/00				

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Call sport as 6 pained by law or result in in order to coase and	 LT45. Earning () desist and to be subject 	report according to 3 to penalties as provid	e regionations, lan fied for in Section 2150	additional information 0136 004 AN	
ANIMAL AND I		TION SERVICE	1. REGISTRATION 2. HEADOUARTERS include Zip Code	14-R-0089. Cust ld 516 BOSTON BIOMEDICAL RESEARCH INSTITUTE 64 GROVE STREET	36 SDA
3. REPORTING FACILITY (List all I	(PE OR PRINT)	were housed or used	in actual research, lesting, leachi	WATERTOWN, MA 02472	ach additional
sheets if necessary)		FAC	CILITY LOCATIONS (Siles)		
64 Grove Street,	Watertown,	MA 02472			
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if nec	essary or use APHIS FORM 7023A) '	<u></u>
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or heid for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which leaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the leaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs				· · · · · · · · · · · · · · · · · · ·	
7. Hamsters					
3. Rabbits	none	3	none	none	3
9. Non-human Primates 10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ferrets	none	53	none	none	53
ASSURANCE STATEMENTS	l				
1) Professionally acceptable st			se of animals, including approrial ion were followed by this researc	le use of anesthetic, analgesic, and tranquilizing drugs, p h facility.	prior to, during,

2). Each principal investigator has considered alternatives to painful procedures.

3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U S C. Section 2143)							
SIGNATURE OF C.E.O. OR INSTITUTI	ONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
	^	1	11/1/00				
Al (AUG 91)		,					

UNITED STATES DEPARTM ANIMAL AND PLANT HEALT	ENT OF ACDIDIU TUDE					
			1. REGISTRATIO	1	FORM APP	
ANNUAL REPORT OF RE (TYPE OR F			2. HEADOUARTE include Zip Co		омв ко о	· with USDA,
3. REPORTING FACILITY (List all locations when sheets it necessary)	e animals were housed or used	in actual rese	earch, testing, lead	hing, or experimentation, or held for the	se purposes. Alla	un additional
			TIONS (Sites)			
Veterinary Technolo Laboratory Animal	gy Building					
Laboratory Animal	Care Facility					
REPORT OF ANIMALS USED BY OR UNDER COM	an a	l (Attach adiu	titional sheets if ne			
A. B. Number of animals bored, By The Animal Welfare Regulations version of the second of the second surgery by set used in purposes.	eeing animals upon which teaching, ed, or research, see in experiments, or testing, tests were nts, conducted or involving no ut not pain, distress, or for such use of pain-	which ex- teaching surgery, conduct accomp distress and for anesthe	of animals upon speriments, g, research, or tests were led involving anying pain or to the animals which appropriate lic, analgesic, or izing drugs were	E. Number of animals upon which lear experiments, research, surgery or t conducted involving accompanying to the animals and for which the us anesthetic, analgesic, or tranquilizi have adversely affected the proced- interpretation of the teaching, rese experiments, surgery, or tests. (An the procedures producing pain or animals and the reasons such drug must be attached to this report).	ests were pain or distress ie of appropriate ng drugs would lures, results, or arch, explanation of distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs			32			32
5. Cats			18		· · · · · · · · · · · · · · · · · · ·	18
6. Guinea Pigs						
7. Hamsters						
8. Rabbits		6	2			6
9. Non-human Primates						
10. Sheep						
11. Pigs						
12. Other Farm Animals						
13. Other Animals						
ASSURANCE STATEMENTS 1) Professionally acceptable standards gover						

2). Each principal investigator has considered alternatives to painful procedures

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CERI (Cl	hief Executive Office	ADQUARTES RESEARCH FACILITY OFFICIAL r or Legally Responsible Institutional Official) is true, correct, and complete (7 U S C Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFIC	IAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
APHIS FORM 7023 (Replaces VS FO (AUG 91)	RM 18-23 (OCT 88), whic	h is obsolete)	<u> </u>

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	S DEPARTMENT OF ANT HEALTH INSPEC		1. REGISTRA 1	TION NO 4-R-0092	FORM APPROVED OMB NO: 0579-0036	7	
				RTERS RESEARCH FACILITY DA, include Sip Code)	Y (Name and Address, as regi	stered	
ANNUAL REPC	D RT OF RESEA TYPE OR PRIN		75 Francis Boston, M	Brigham & Women's Hospital 75 Francis Street Boston, MA 02115 Status: Active 3 (2000)			
3. REPORTING FACILITY (Lis purposes. Attach additional		nimals were housed o	r used in actual research, te	sting, teaching, or experimenta	ation, or held for these		
			FACILITY LOCATIONS (S	ites)			
See attached.			See attache	d			
REPORT OF ANIMALS USED	BY OR UNDER CON	TROL OF RESEARC	H FACILITY (Attach addition	nal sheets if necessary or use A	APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (<i>List by Species</i>)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experimer teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropri anesthetic, analgesic, tranquilizing drugs wer used.	conducted involving distress to the anime appropriate anesthe tranquilizing drugs v affected the proced iate interpretation of the or experiments, surger re of the procedures p these animals and t	rch, surgery or tests were accompanying pain or als and for which the use of etic, analgesic, or would have adversely ures, results, or	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)	
4. Dogs	0	0	14		0	14	
5. Cats	0	0	0		0	0	
6. Guinea Pigs	0	261	930		0	1,191	
7. Hamsters	0	12	588		0	600	
8. Rabbits	0	26	743		0	769	
9. Non-human Primates	0	0	26		0	26	
10. Sheep	0	0	0		0	0	
11. Pigs	0	4	194		0	198	
12. Other Farm Animals							
13. Other Animals					· · · · · · · · · · · · · · · · · · ·		
					·····		
			······································				
ASSURANCE STATEMENTS							

1. Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

11/22/00

FACILITY SITES LISTING

Licensee/Registrant Name:	Brigham & Women's Hospital
License/Registration Number:	14-R-0092

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:	1	Name/Department: Address:	Center for Animal Resources & Comparative Medicine (ARCM) at Brigham & Women's Hospital Boston, MA 02115
		(1) Building: Floor/Room: Contact Perso Phone Numb	on:
		(2) Building: Floor/Room: Contact Perso Phone Numb	
		(3) Building: Floor/Room: Contact Perso Phone Numb	
Site No.:	3	Name/Department: USDA Registration N Address: Building: Floor/Room: Contact Person: Phone Number:	Pine Acres Rabbitry/Farm (SATELLITE) Io: 14-B-0052 299 East Main Street, Norton MA 02766 Main Building First Floor

All redactions on this page are pursuant to (b)(6) & (b)(7)(c).

FACILITY SITES LISTING

Licensee/Registrant Name:	Brigham & Women's Hospital
License/Registration Number:	14-R-092

Please list below all sites that house animals under the above registration number. Be sure to include all requested information. Do not leave any spaces blank. If lines do not apply, please mark it N/A. If you have more than three (3) sites, please copy this form as many times as needed before filling in the sites.

Site No.:	4	Name/Department: USDA Registration No.: Address: Building: Floor/Room: Contact Person: Phone Number:	HMS/ARCM - Seeley G. Mudd (SATELLITE) 14-R-019 250 Longwood Avenue, Boston MA 02115 Seeley G. Mudd Building Basement Level
Site No.:	7	Name/Department: USDA Registration No.: Address: Building: Floor/Room: Contact Person: Phone Number:	HMS/ARCM - Central (SATELLITE) 14-R-019 665 Huntington Avenue, Boston MA 02115 Harvard School of Public Health - Bldg. II Ground and Basement Levels
Site No.:	8	Name/Department: USDA Registration No.: Address: Building: Floor/Room: Contact Person: Phone Number:	HMS/ARCM - HIM (SATELLITE) 14-R-019 77 Avenue Louis Pasteur, Boston MA 02115 Harvard Institutes of Medicine Ground and Basement Levels

This report is required by law c result in an order to cease and	. The 21431 Farmeric desist and to be subject	report according to th Fo penalties as provid	н недокатной ied for нь Se	s ction 2150		rse side to: al information	1616 A	ort i t.
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION		145		ROVED
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ANNUAL REPOP	RT OF RESEAR YPE OR PRINT)	CH FACILITY	•	з. N	WELLESLU 106 CENTRALS WELLESLEY, N	TOFEL	104 20 2	an si
3. REPORTING FACILITY (List all	locations where animals	were housed or used	in actual res	earch, testing, teac	hing, or experime	untation, or held	or these purposes. Alla	ich additional
sheets if necessary.)								
		FA	CILITY LOCA	TIONS (Siles)				
	·····							
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi	filional sheets if ne	cessary or use Al	PHIS FORM 7023	A) -	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon xperiments, g, research, , or tests were ted involving panying pain or ; to the animals which appropriate tic, analgesic, or lizing drugs were	experiments conducted i to the anima anesthetic, have advers interpretatio experiments the procedu animals anc	als and for which analgesic, or trai sely affected the on of the teachin s, surgery, or test ures producing p	ry or tests were anying pain or distress the use of appropriate quilizing drugs would procedures, results, or g, research, s. (An explanation of ain or distress in these th drugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs								
5. Cats								
6. Guinea Pigs								
7. Hamsters								
8. Rabbits				3				
9. Non-human Primates								
10. Sheep								
11. Pigs							······	
12. Other Farm Animals								
13. Other Animals								
ASSURANCE STATEMENTS	······································							·····
 Professionally acceptable st and following actual researce 						etic, analgesic, a	nd tranquilizing drugs, p	rior to, during,
2) Each principal investigator	has considered alternati	ves to painful procedu	res					
 This facility is adhering to the principal investigator and a addition to identifying the b 	pproved by the Institution	onal Animal Care and I	Use Commiti	ee (IACUC) A sun	nmary of all such	h exceptions is	attached to this annua	al report. In
 The attending veterinarian f animal care and use. 	for this research facility	has appropriate autho	rity to ensur	e the provision of a	dequate veterinal	ry care and to ov	ersee the adequacy of ot	her aspects of
		ATION BY HEAI						

E certily that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL

DATE SIGNED

This report is required by law v result in the order to cease and r	USC 2143) - Failure io desist and to be subject	report according to the t to penalties as provid	e regioation led for in Se	s can ction 2150	See reverse site for additional information	0180 DOA AN	Cor
ANIMAL AND ANNUAL REPOR	PE OR PRINT)	CTION SERVICE		MC 11 BE	NO. CLIST ID 146 LEAN HOSPITAL CORPORATION CLEAN HOSPITAL CORPORATION 5 MILL STREET ELMONT, MA 02478	5 •	PROVED 579-0036 I with USDA ch additional
		FAC	LILITY LOCA	TIONS (Sites)	<u></u>	···	
McLean Hospital C				· · · · · · · · · · · · · · · · · · ·			
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adie	titional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon xperiments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate slic, analgesic, or lizing drugs were	E. Number of animals upon which tead experiments, research, surgery or te conducted involving accompanying to the animals and for which the us anesthetic, analgesic, or tranquilizin have adversely affected the proced interpretation of the teaching, resea experiments, surgery, or tests. (An the procedures producing pain or of animals and the reasons such drug must be attached to this report).	ests were pain or distress e of appropriate ng drugs would ures, results, or arch, explanation of distress in these	F. TOTAL NO. OF ANIMALS (Cois. C + D + E)
4. Dogs							N/A
5. Cats						· · · · · · · · · · · · · · · · · · ·	N/A
6. Guinea Pigs							N/A
7. Hamsters							N/A
8. Rabbits	-0-	-0-		-0-	-0-		-0-
9. Non-human Primates	-0-	-0-	<u></u>	119	-0-		119
10. Sheep							N/A
11. Pigs						······	N/A
12. Other Farm Animals							N/A
13. Other Animals	Rats and	nice not co	vered	by these	reporting requiremen	ts	
ASSURANCE STATEMENTS							

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Ecentify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF CEO, OR INSTITUTIONAL OFFICIAL (TWO OF POUL

PATE SIGNED

APHIS FORM 7023 (AUG 91)

result in an order to cease and		report according to i Finanties as provi	he regulations can ided for in Section 2150	San reverse side for additional information U130 (X)A AN	
	TES DEPARTMENT OF A PL: NT HEALTH INSPEC		1. REGISTRATIC 14 R 00	96 ОМВ НО	2PROVED 0579-0036
		001 1 1	J ^{R II} include Zip Co	ERS RESEARCH FACILITY (Name and Address, as register bde)	ed with USDA
	SHEET FOR A RESEARCH FAC TYPE OR PRIN	CILITY	115 Mil	Hospital Corporation 1 Street , MA 02478	
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Atlach adictitional sheets if n	ecossary or use this form I	
A Animals Covered By The Animat Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not	C Number of animals upon which leaching research, experiments, or tests were conducted involving no pain, distress, or	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate	E. Number of animals upon which feaching, experiments, research, surgery or fests were conducted involving accumpanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquitizing drugs would have adversely affected the procedures, results, or interpretation of the feaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in theso	F TOTAL NO OF ANIMALS (Cols. C + O + E)
12 &/OR 13 Other (Ust by species)	yet used for such purposes	use of pain- relieving drugs.	anesthetic, analgesic, or Tranquilizing drugs were used.	animals and the reasons such drugs were not used must be attached to this report)	
Rabbits	-0-	-0-	-0-	-0-	-0-
Non-human primates	-0-	_0_	119	-0	119
	1				
				· · · · · · · · · · · · · · · · · · ·	
				,	
SURANCE STATEMENTS					
 Professionally acceptable stand, and following actual research, te 				use of anesthetic analgesic and tranquilizing drugs, priv facility	to, during
2). Each principal investigator has c	considered afternatives (o painful procedures			
principal investigator and appro	ved by the Institutional	Animal Care and Use (Committee (IACUC) - A summa	to the standards and regulations be specified and explaine any of all such exceptions is attached to this annual r eptions, as well as the species and number of animals afte	eport to
 The attending voterinarian for th animal care and use 	is research facility has a	ippropriate authority t	o ensure the provision of adeq	wate veterinary care and to oversed the adequacy of other	aspecis C

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
Ecentrily that the above is true, correct, and complete (7.U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

9/30/00

APHIS FORM 7023A (AUG 91)

This report is required by law (result in an order to cease and				See reverse side for additional information	Managency Report Control No. 0180 DOALAN
	TES DEPARTMENT OF A PLANT HEALTH INSPEC		1. REGISTRAT	ION NO.	APPROVED 0 0579-0036
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3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used	in actual research, testing, l	eaching, or experimentation, or held for these	purposes. Attach additional
		FA	CILITY LOCATIONS (Siles)		
See Attached	1				
REPORT OF ANIMALS USED BY O		F RESEARCH FACILITY	(Attach adiditional sheets il	necessary or use APHIS FORM 7023A.)	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not vet used for euch	eing animals upon which ed, or research, surger ise in experiments, or condu testing, tests were accorr nts, conducted distre- or involving no and to pain, distress, or anest		experiments, research, surgery on re conducted involving accompanying to the animals and for which the use anesthetic, analgesic, or tranquilizin have adversely affected the procedu interpretation of the teaching, resea experiments, surgery, or tests. (An e the procedures producing pain or d	sts were pain or distress of appropriate g drugs would tres, results, or rch, <i>xplanation of</i> istress in these COLS . C + D + E
	yet used for such purposes.	use of pain- relieving drugs.	tranquilizing drugs wer used.	must be attached to this report).	
4. Dogs	0	0	0	00	Q
5. Cats	0	0	0	0	Q
6. Guinea Pigs	0	30	0	<u>0</u>	
7. Hamsters	0	0	<u> </u>	Ĵ	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	<u> </u>
11. Pigs	0	0	0	0	<u>0</u>
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0
ASSURANCE STATEMENTS					
1) Bud anima #					· · · · · · · · · · · · · · · · · · ·

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
		11-20-04					

This report is required by law th result in 16 order to cease and	Crist 21437 Faking to desist and to be subjed	report according to tr Lto penalties as provid	e regitations au led for in Section 2150	Sie teverste aute die additional information	OBO DOA AN	Yr
	ES DEPARTMENT OF A		1. REGISTRAT	ION NO.	FORM APP	ROVED 579-6036
ANNUAL REPOR	T of Resear Pe or Print	SEP 2.6 2 CH FACILITY		-0108. Cust ld 517 ⁷ ENGLAND BIOLABS, INC. DZER ROAD ERLY, MA 01915		I with USDA
3. REPORTING FACILITY (List all 1 sheets if necessary)	ocations where animals	were housed or used	n actual research, testing, t	eaching, or experimentation, or held for	r these purposes. Attai	ch additional
		. FA	CILITY LOCATIONS (Siles)			
32 Tozer Road, Be	verly, MA					
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets i	necessary or use APHIS FORM 7023A.	, <i>·</i>	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upo which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropri anesthetic, analgesic, o tranquilizing drugs wer used	 E. Number of animals upon which experiments, research, surgery conducted involving accompar to the animals and for which til anesthetic, analgesic, or tranq have adversely alfected the pr interpretation of the teaching, experiments, surgery, or tests. 	n teaching, y or tests were hying pain or distress he use of appropriate uitizing drugs would ocedures, results, or research, (An explanation of n or distress in these drugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0		0
5. Cats	0	0	0	0		0
6. Guinea Pigs	0	0	0	0		0
7. Hamsters	0	0	0	0		0
8. Rabbits	0	0	0	0		0
9. Non-human Primates	0	0	0	0		0
10. Sheep	0	0	0	0		0
11. Piqs	0	0	0	0		0
12. Other Farm Animals	0	0	0			0
13. Other Animals	0	0	0	0		0
ASSURANCE STATEMENTS						

 Professionally acceptable standards governing the care, treatment, and use of animals, including approvate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures

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CERTIFICATION BY HEADQUARTES RESEARC (Chief Executive Officer or Legally Responsible 1 Lertily that the above is true, correct, and complete (7 U	Institutional Official)	
	(Type or Print)	DATE SIGNED
		9/21/00

result in an order to cease and			f for in Section	2150	additional information	UIBG-DOA AN	- pr
	ES DEPARTMENT OF A PLANT HEALTH INSPEC	TION SERVICE	000	REGISTRATION N		FORM APP OMB NO ()	579-0036
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)			2, Hir	2. HEADOUACTER DESCRIPTION EACH ITY (Name and Address, as registered with USDA, include Zi, 14-R-0109, Cust ld 151 ATTN: PRESIDENT FOR R, H & T'S WHEATON COLLEGE RT, 123 NORTON, MA 02766			
3. REPORTING FACILITY (List all I sheets if necessary.)	ocations where animals	were housed or used in	actual research	, testing, teachi	ng, or experimentation, or new torin		ch additional
·····		FACIL	ITY LOCATION	S (Sites)			
Diabagy Psychobia hooms 120 A 130 REPORT OF ANIMALS USED BY O	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	BESEARCH EACH LTY			(b)(6), (b)(7)c		
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.		 Number of a which experi- teaching, res surgery, or to conducted in accompanyii distress to th 	niinals upon inents, search, asts were ivolving ng pain or he animals h appropriate nalgesic, or	E. Number of animals upon which the experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the procinterpretation of the teaching, reexperiments, surgery, or tests. (The procedures producing pain animals and the reasons such dimust be attached to this report).	or tests were ing pain or distress use of appropriate lizing drugs would cedures, results, or esearch, An explanation of or distress in these rugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	nla						0
5. Cats	nia						0
5. Guinea Pigs	nlà						0
7. Hamsters	Na						0
3. Rabbits	nla						0
. Non-human Primates	nla						D
0. Sheep	nia						Ō
1. Pigs	Na				·····		0
12. Other Farm Animals	nla						0
13. Other Animals	nla						0
ASSURANCE STATEMENTS					· · · · ·		
	andards governing the	care treatment and use	of animate inc	udino approviat	e use of anesthetic, analgesic, and t	ranguilizing dauge a	ior to during

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

t certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATUR

I	DATE SIGNED
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I	12/6/00
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Thus open is required by law r result of an order to Gease and		report as inding to th Clo penalties as provid		bee reverse side for additional internation	Interactions, my official traction 0180 DGA AN
	TES DEPARTMEN OF A PLANT HEALTH KODPEC		1. REGISTRATION		FORM APPROVED OMB NO 0579-0036
			2. HEAD	0112, Cust ld 152	ared with USDA,
ANNUAL REPOR	RT OF RESEAR YPE OR PRINT)	CH FACILITY		HEAD INSTITUTE FOR BIOMEDIC/ AMBRIDGE CENTER RIDGE, MA 02142	AL RESEARC
REPORTING FACILITY (List all sheets if necessary)	locations where an mals	were housed or used i	n actual research, testing, teac	hing, or experimentation, or held for th	ese purposes. Attach additional
		FAC	CILITY LOCATIONS (Sites)		
Same as item 2					
PORT OF ANIMALS USED BY C	R UNDER CONTROL OF	RESEARCH FACILITY	l (Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A)	,
Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyii to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proce- interpretation of the leaching, res experiments, surgery, or tests. (A the procedures producing pain of animals and the reasons such dr must be attached to this report).	r tests were ng pain or distress use of appropriate zing drugs would edures, results, or search, An explanation of r distress in these D + E
Dogs					
Cats					
Guinea Pigs					
Hamsters					
Rabbits					
Non-human Primates					
). Sheep					
. Pigs					
. Other Farm Animals					
		284 chicke because th	ns were reporte e chickens were	l on the Annual Rep housed there	ort for MIT
. Other Animals					
Mice		661	20,300		20,961
Frogs		640	0		640
			se of animals, including approri on were followed by this resear	ate use of anesthetic, analgesic, and tr ch facility	anquilizing drugs, prior to, during,
principal investigator and a	he standards and negula ipproved by the institution	tions under the Act, and onal Animal Care and I	nd it has required that exceptio Use Committee (IACUC) - A sun	ns to the standards and regulations be imary of all such exceptions is atta exceptions, as well as the species and	ched to this annual report. In

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Executive that the above is true, correct, and complete (7 USC Section 2143)						
SIGNATURE OF C.E.O. CP INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED 10/26/00				
APHIS FORM 7023 (Benlaces VS FORM 18-23 (OCT 88	() which is obsolete)					

The report of required by law (c remain an order to bease and o	and 214a. Failure to desist and to be subject	export according to th Flo penalties as provid	e regulation led for in Se	5 Jan Chon 2150		ure reverse order for additional information	940-4694 (* 1914) 0180-DOA AN	in and in fifter
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRA		114. Cust ld 1792	pp 0	ROVED 579-0036
ANNUAL REPOR	T OF RESEAR PE OR PRINT)		dia:	E 5	BIOLO 50 COL	T HOLYOKE COLLEGE GY DEPARTMENT LEGE STREET HADLEY, MA 01075	ec	t with USDA.
3. REPORTING FACILITY (List all k sheets it necessary.)	ocations where animals	were housed or used i	in actual res	earch, testing,	1eachi.	ag, or experimentation, or held for t	hese purposes. Atta	ch additional
		FAC	CILITY LOCA	TIONS (Siles)		·····		
Biology DEPT.	CLAPP L	AB RM. C	5					
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi	ditional sheets	il nece	essary or use APHIS FORM 7023A)		
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of ammals up experiments, g, research, , or tests were ted involving panying pain or s to the animal which approp atic, analgesic, lizing drugs we	r Is riate or	E. Number of animals upon which the experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquit have adversely affected the provinterpretation of the teaching, reexperiments, surgery, or tests. (The procedures producing pain animals and the reasons such dimust be attached to this report).	or tests were ing pain or distress e use of appropriate lizing drugs would cedures, results, or esearch, (An explanation of or distress in these lrugs were not used	F. TOTAL NO. OF ANIMALS (COIS. C + D + E)
4. Dogs								
5. Cats				125		4		
6. Guinea Pigs			h i M	he l	<u> </u>	<u> </u>		
7. Hamsters		DED 1		ANY				
8. Rabbits	1.00	VENT	N					
9. Non-human Primates	No co	VERED 1 USED						
10. Sheep								
11. Pigs								
12. Other Farm Animals						<u> </u>		
13. Other Animals				· · · · · · · · · · · · · · · · · · ·				
ASSURANCE STATEMENTS						e use of anesthetic analoesic and		rior to during

 Professionally acceptable standards governing the care, freatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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DATE SIGNED

This report is required by law o result in an order to cease and	desist and to be subject	report according to th To penalties as provid	e regination led for in Se	s can c ho n 2150	See revision side for additional information	0180-DCA-4N	f de la
	ES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	I NO.	FORM ≜PP OMB NO .0	
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)			2. HEADC include (b)(6), (b)(7)C GENETICS INSTITUTE, INC. 87 CAMBRIDGEPARK DRIVE CAMBRIDGE, MA 02140 MUY 2 1 20 MUY 2 1				
3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used i	in actual res	earch, testing, teac	hing, or experimentation, or held h	or these purposes. Atta	ch additional
		FAC		TIONS (Siles)			
Site 2: Building G,	Andover			Site 1:5() Cambridge Park	Drive, Cambr	idge
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adi	ditional sheets if ne	cessary or use APHIS FORM 70234	U *	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but nol yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate atic, analgesic, or lizing drugs were	E. Number of animals upon white experiments, research, surge conducted involving accomp- to the animals and for which anesthetic, analgesic, or tran have adversely affected the p interpretation of the teaching experiments, surgery, or test the procedures producing pa animals and the reasons suc must be attached to this repo- tion of the teaching and the surger must be attached to this repo- tion of the teaching and the teaching and the surger animals and the teaching and the surger animals and the surger and the surger and the surger animals and the surger and the surger and the surger animals and the surger and the surger and the surger animals and the surger and the surger and the surger animals and the surger and the surger and the surger animals and the surger and the sur	ry or tests were anying pain or distress the use of appropriate quilizing drugs would orocedures, results, or), research, s (An explanation of ain or distress in these h drugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D → E)
4. Dogs				51			51
5. Cats			ļ			· · · · · · · · · · · · · · · · · · ·	
6. Guinea Pigs		38					38
7. Hamsters							
8. Rabbits		11		242			253
9. Non-human Primates				109	· · · · · · · · · · · · · · · · · · ·	• •• • <u>•</u> • • • ••••	109
10. Sheep							
11. Pigs							
12. Other Farm Animals					······································		
13. Other Animals							
ASSURANCE STATEMENTS			I		I		!
1) Professionally acceptable s	tandards governing the	care, treatment, and u	se of animal	s, including approri	ate use of anesthetic, analgesic, a	nd tranquilizing drugs, p	rior to, during,

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SI		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
			11 /16/2000			
A .	1 18-23 (OCT 88	3), which is obsolete)				

report is required by law (result in an order to sease and	, USC 2143). Foreine to Edesist and to be subject	in port according to th L to penalties as provir	e ngoann teit for in Se	5 555 6166-21 50	See reverse ande for additional information	Microspency Boga 0180-DOA-AN	srlas alter™e
ANIMAL AND	TES DEPARTMENT OF J PLANT HEALTH INSPEC RT OF RESEAF YPE OR PRINT)	CTION SERVICE		2. HEADOU: include Zi N	ON NO. 4-R-0119, Cust ld 143 MARINE BIOLOGICAL LABORATORY MBL STREET WOODS HOLE, MA 02543).	ROVED 579-0036 With USDA
3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals				aching, or experimentation, or held for the	ese purposes. Alla	ch additional
		FA	CILITY LOCA	TIONS (Siles)			<u></u>
15 North Street,							
REPORT OF ANIMALS USED BY C	OR UNDER CONTROL OF	RESEARCH FACILITY	(Allach adio	titional sheets if	necessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Wellare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e leachin surgery conduc accomp distress and for anesthe	r of animals upor xperiments, g, research, , or tests were fed involving panying pain or i to the animals which appropria etic, analgesic, or lizing drugs were	experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquili, have adversely affected the proce interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain or opingte and the reasons such dri	lests were Ig pain or distress ise of appropriate zing drugs would dures, results, or earch, n explanation of o distress in these	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats						<u> </u>	·
6. Guinea Pigs							
7. Hamsters			10)			10
8. Rabbits				, + 		<u></u>	4
9. Non-human Primates						·	
10. Sheep							
11. Pigs							
12. Other Farm Animals							
13. Other Animals						······	
ASSURANCE STATEMENTS	·····						
 Protessionally acceptable st and following actual research 	andards governing the c ch, leaching, lesting, sur	are, treatment, and us gery, or experimentation	e of animals on were follo	i, including appro wed by this rese	priate use of anesthetic, analgesic, and tra arch facility.	anquilizing drugs, p	rior to, during,

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				

APHIS FORM 7023 (AUG 91)

This report is inquired by law in result in an order to cease and					See reverse side for additional information	ndenaapen jerseje Otsoedige an	adi sa to tu s fi t
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			1. REGISTRATION	123 Cupted and	FORM APE OMB NO (
ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)		2. HEAD incluo GENZY ONE KI BUILDI		2 4 2000	d with USDA.		
3. REPORTING FACILITY (List all sheets if necessary)	locations where animals	were housed or used	in actual res	earch, testing, teac	hing, or experimentation, or held for t	hese purposes. Atta	ich additional
		FA	CILITY LOCA	TIONS (Siles)			
Framingham	ma			Camt	oridge, MA		
Bolton, MA				Lexin	iaton, KY		
	R UNDER CONTROL O	F RESEARCH FACILIT	l (Altach adio	litional sheets if ne	cessary or use APHIS FORM 7023A.)		
A Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	which e teachin surgery conduc accomp distress and for anesthe	r of animals upon xperiments, g. research, , or tests were ted involving panying pain or s to the animats which appropriate stic, analgesic, or lizing drugs were	E. Number of animals upon which I experiments, research, surgery c conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	or tests were ing pain or distress e use of appropriate lixing drugs would cedures, results, or esearch, (An explanation of or distress in these tugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats			L				
6. Guinea Pigs			; 	209	· · · · · · · · · · · · · · · · · · ·		209
7. Hamsters							
8. Rabbits				67			267
9. Non-human Primates							
10. Sheep							
11. Pigs			F	4			74
12. Other Farm Animals							
Guats	18		8	38			88
13. Other Animals							
Horses		·····-		5			5
				·			
ASSURANCE STATEMENTS			I		1		
1) Professionally acceptable si	andards governing the	care, treatment, and u	se of animat	s, including approri	ale use of anesthetic, analgesic, and t	tranquilizing drugs, p	rior to, during,

ıg ıg rugs, pr and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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SIGNATURE OF C.E.O. OR IN		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
APHIS FORM 7023						

(AUG 91)

This report is required by naw or result in an order to cease and i				See reverse sure for the strength of additional information of ad-bit 2.4.4	
	ES DEPARTMENT OF		1. REGISTRATION	FORM	APPROVED
	نور د		2. HEADQUAI 14 include Zip	I-R-0126, Cust ld 155	with USDA,
ANNUAL REPOR				DVANCED MAGNETICS INC.	
(TY	PE OR PRINT)	NOV 15 2	000	MOONEY STREET AMBRIDGE, MA 02138	
3. REPORTING FACILITY (List all in sheets if necessary.)	ocations where animals	were housed or used i	in actual research, testing, teac	hing, or experimentation, or held for these purposes.	Attach additional
			CILITY LOCATIONS (Siles)		
61 MCON CAMBR	VEX STRE	MAOZI	38		<u> </u>
					·····
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF B. Number of			cessary or use APHIS FORM 7023A.)	
Animals Covered By The Animal Welfare Regulations	 B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, 	C Number of animals upon which teaching, research, experiments, or tests were conducted	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distri- to the animals and for which the use of appropria anesthetic, analgesic, or tranquilizing drugs wou have adversely affected the procedures, results, interpretation of the teaching, research,	d OF ANIMALS
	research, or surgery but not yet used for such purposes.	involving no pain, distress, or use of pain- relieving drugs.	distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in the animals and the reasons such drugs were not us must be attached to this report).	P = (D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	<u> </u>	<i>D</i>	V
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0	D
8. Rabbits	D	0	0	0	0
9. Non-human Primates	0	0	0	0	O
10. Sheep	Ø	0	D	Ø	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	1	0	0	\mathcal{O}	0
	·····V	V	V	L'	
ASSURANCE STATEMENTS					

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(Chief Executive Officer or Legally Res	CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lectify that the above is true, correct, and complete (7 USC Section 2143)						
SIGNATION OF A CALL AND	ve or Print)	DATE SIGNED					
		11-09-00					

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Thus report is required by law (7% multimanil interview to cease and de	USC 2143+ Failure to esist and to be subject	report according to the to penalties <u>as provide</u>	e regulation ed <u>for in S</u> e	s can ction 2150	See reverse side for interagen additional information 0150-DO	o, Report Control No. 4-AN	
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE					1. REGISTRATION NO. FORM APPROVED 14-R-00128 OMB NO 0579-0036		
					RS RESEARCH FACILITY (Name and Address, as n nclude Sip Code)	egistered	
	ANNUAL REPORT OF RESEARCH FACILITY (<i>TYPE OR PRINT</i>)			Harvard Unive Faculty of Arts 24 University H Cambridge, M Status: Active	& Ściences Hall A 02138		
3. REPORTING FACILITY (Lis purposes. Attach additional		nimals were housed o	r used in a	ctual research, testing	, teaching, or experimentation, or held for these		
			FACILITY	LOCATIONS (Sites)			
See attached.				See attached.			
REPORT OF ANIMALS USED	BY OR UNDER CON	TROL OF RESEARC	H FACILIT	Y (Attach additional st	neets if necessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (List by Species)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.		E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	TOTAL NO. OF ANIMALS (Cols. C + D + E)	
4. Dogs	0	0	2			2	
5. Cats	0	0		0	0	0	
6. Guinea Pigs	0	0		0	0	0	
7. Hamsters	0	0		 0	0	0	
8. Rabbits	2	1		4	0	5	
9. Non-human Primates	0	30		0	0	30	
10. Sheep	0	0		0	0	0	
11. Pigs (mini)	0	0		6	0	6	
12. Other Farm Animals		e a ja	i de per				
Goats	0	0		12	0	12	
Ponies	1	0		0	0	0	
13. Other Animals		a da series de la companya de la com Tente de la companya d Companya de la companya					
Alligators	0	0		3	0	3	

1. Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).						
SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CE O OD INSTITUTIONAL OFFICIAL	DATE SIGNED				
		11/29/00				

		ES DEPARTMENT OF LANT HEALTH INSPE		1.	REGISTRATION 14-R-	NO. 00128	FORM APPROVED OMB NO: 0579-0036	
		I SHEET FOR A RESEARCH FAO TYPE OR PRIN	CILITY		 HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with the USDA, include Sip Code) Harvard University Faculty of Arts & Sciences 24 University Hall Cambridge, MA 02138 Status: Active 			
_	REPORT OF ANIMALS USE A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (List by Species)	B BY OR UNDER CO B. Number of animals being bred, conditioned, or held for use in teaching, experiments, research, or surgery but not yet used for such purposes.	NTROL OF RESEAR C. Number of animals upon which teaching research, experiments or tests were conducted involving no pain, distress, or use of pain relieving drugs.	D. Numbers upon whit teaching, surgery, c conducter accompai distress tr and for w anesthetic	· · · · · ·	E. Number of animals experiments, resea conducted involving distress to the anim appropriate anesth- tranquilizing drugs affected the proced interpretation of the experiments, surge of the procedures p these animals and	upon which teaching, rch, surgery or tests were a accompanying pain or als and for which the use of stic, analgesic, or would have adversely ures, results, or	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
	13. Other continued	e de la Carlo de Carlos Servicio de Carlos de Carlos Carlos de Carlos de Carlos				1999年1月1日 1月1日日 - 新聞家子 - 新聞 1月1日日 - 新聞家子 - 新聞	a da sundan da su da Na su da s	••
	Bats	0	0		8		0	8
	Birds (Wild caught)	0	0		31		0	31
	Chinchillas	1	0		0		0	0
	_Ducks (mallards)	0	0		12		0	12
	- Emus	4	0		0		0	0
	Fish	7500	27,509		0		0	27,509
	Frogs	3	533		30		0	563
	Guinea Fowl	0	0		10		0	10
	Hedgehogs	1	0		0		0	0
	Iguanas	0	0		2		0	2
	-Lizards (monitors)	0	0		11		0	11
	Lizards (skinks)	0	0	2	25		0	225
	Lizards (other)	2	0		16		0	16
	Salamanders	2	107		0		0	107
	Sharks	0	7		0		0	7

during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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SIGNAT	DATE SIGNED 11/29/00

Feborius required by raw (1) of the wornger to bease and de	USC 21454 Failure to r esist and to be subject (report according to th to penalties as provid	e regulations can ed for in Section 2150	<u></u>	See receive site for artificinal information	merayens, 2150-004-4	Podom Clining No 1
	ES DEPARTMENT OF LANT HEALTH INSPE		1. REGIST	RAT:ON N 14-R-0012		FORM APPROVIES DMB NO: 0579-0036	
	I SHEET FOR A RESEARCH FAC TYPE OR PRIN	CILITY	RT with the of Harvard Faculty of 24 Univer	USDA, inc University f Arts & So rsity Hall ge, MA 021	ciences	and Address, as regis	slered
REPORT OF ANIMALS USE	D BY OR UNDER CO	NTROL OF RESEAR	CH FACILITY (Attach add	ditional sh	eets if necessary or use APHIS I	FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (<i>List by Species</i>)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	nals being t,animals upon which teachingupon which experiments, teaching, research,ex- co co conducted involvingditioned, or t for use in experiments orexperiments or conducted involving conductedconducted involving arc accompanying pain or tra- distress to the animals and for which appropriate eriments, erim, or use of painupon which experiments, teaching, research, surgery, or tests were accompanying pain or tra- distress to the animals and for which appropriate eriments, or use of pain used for relievingupon which experiments, teaching, research, conducted distress to the animals anesthetic, analgesic, or tranquilizing drugs were used.experiments, tranquilizing drugs were the 		E. Number of animals upon whi experiments, research, surge conducted involving accomp distress to the animals and fi appropriate anesthetic, analg tranquilizing drugs would hav affected the procedures, ress interpretation of the teaching experiments, surgery, or test of the procedures producing these animals and the reaso were not used must be attact	ery or tests were anying pain or or which the use of gesic, or ve adversely ults, or , research, s. (An explanation pain or distress in ns such drugs	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)	
13. Other continued		· · · · · · · · · · · · · · · · · · ·					
Snakes	4	1	0		0		1
~Fegus	0	0	2		0		2
-Toads	0	30	28		0		58
Turtles	4	0	0		0		0
Wallabies	0	0	4		0		4
	2	0	13-1		<u> </u>		
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SSURANCE STATEMENTS Professionally accept during, and following	table standards governi	ng the care, treatmen ng, testing, surgery, o	t, and use of animals, incl r experimentation were fc	luding app blowed by	propriate use of anesthetic, analg this research facility.	esic, and tranquilizing) drugs, prior to,
	gator has considered a						
principal investigator	and approved by the In:	stitutional Animal Car	e and Use Committee (IA	CUC) A	tions to the standards and regula summary of all such exceptions i the exceptions, as well as the spe	is attached to this and	ual report In
The attending veterin animal care and use.	arian for this research fa	acility has appropriate	e authority to ensure the p	rovision o	of adequate veterinary care and to	oversee the adequa	cy of other aspe

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S		DATE SIGNED 11/29/00

FACILITY SITES LISTING

Licensee/Re				Harvard University Faculty of Arts & Sciences				
License/Reg	istration	Numbe	r:	14-R-128				
requested ir	formation	on. Do r	not leave any spa	is under the above registration number. Be sure to include all aces blank. If lines do not apply, please mark it N/A. If you have rm as many times as needed before filling in the sites.				
Site No.:	1	Nam Addr	e/Department: æss:	Office of Animal Resources (OAR) Harvard University Cambridge, MA 02138				
		(1)	Building:	The Biological Laboratories - 16 Divinity Avenue				

		Addr	ess:		arvard University ambridge, MA 02138		
		(1)	Building: Floor/Room: Contact Perso Phone Numb		The Biological Laboratories - 16 Divinity Avenue Fifth Floor		
		(2)	Building: Floor/Room: Contact Perso Phone Numb		Museum of Comparative Zoology - 26 Oxford Street First and Second Floors		
		(3)	Building: Floor/Room: Contact Perso Phone Numb		William James Hall - 33 Kirkland Street 10th Floor		
		(4)	Building: Floor/Room: Contact Perso Phone Numb		Fairchild Biochemistry Building - 7 Divinity Ave. Lower Level		
Site No.:	2	Addr Builc Floor Cont		Old (Main	cord Field Station (CFS) Causeway Road, Bedford MA 01730 and fields Floor and Grounds		

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ANNUAL REPOR	RT OF RÉSEAR		D ZUU, include Zip Cod	RS RESEARCH FACILITY (Name and A ⁽⁹⁾ Biopure Corpora 1 Hurley Stree Cambridge, MA	tion t	with USDA
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	. v [.] qv.	4 s 1		Doubles (buildes		
3. REPORTING FACILITY (List all sheets if necessary.)	locations where animals	were housed or used i	n actual research, festing, feaci	hing, or experimentation, or held for the	nese purposes. Altac	ch additionai
		FAC	CILITY LOCATIONS (Siles)			
				······································		
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquit have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be affached to this report).	r tests were ing pain or distress use of appropriate lizing drugs would edures, results, or isearch, An explanation of or distress in these	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs						
5. Cats						
6. Guinea Pigs						
7. Hamsters						
8. Rabbits						
9. Non-human Primates						
10. Sheep						
11. Pigs						
12. Other Farm Animals						
					····	
13. Other Animals						
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ASSURANCE STATEMENTS						

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Ecertify that the above is true, correct, and complete (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

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This report to required by law or result in an order to cease and i	ینا بحدیقاً الفائلا کردن desist and to be strojec	ndent according to the Holpenalties as provid	n ray viol ans con teo for in Section 2150	additional information	faverslaget solf et solf of solf villey. 0160-DCA AN
UNITED STAT ANIMAL AND T	ES DEPARTMENT OF A PLANT HEALTH INSPEC	GRICULTURE	1. REGISTR 14-F	R-0133 Crintlese (g	FGRM APPROVED
ANNUAL REPOR	R T OF RESEAF PE OR PRINT)		195	NSKARYOTIC THERAPIES INC. ALBANY STREET BRIDGE, MA 02139	d with USDA.
3. REPORTING FACILITY (List all I sheets if necessary.)	ocations where animals	were housed or used	in actual research, lesting, teac	hing, or experimentation, or held for the	ese purposes. Attach additional
		FAC	CILITY LOCATIONS (Siles)		
195 Albany St					
Cambridge, M	IA 02139				_
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	f (Attach adiditional sheets if ne	cessury or use APHIS FORM 7023A)	
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4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters	0	121	0	0	121
8. Rabbits	0	0	4	0	4
9. Non-human Primates			·		
10. Sheep		· · · · · · · · · · · · · · · · · · ·			
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
ASSURANCE STATEMENTS					

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SIGN		DATE SIGNED
APHIS FORM 7023	(Replaces VS FORM 18-23 (OCT 88), which is obsolete)	 1121

Thu report is expliced by law s result in morder to cease and d	USA, 21436 Failure for resist and to be subject	report accuracy to the to penalties as provid	a nagidations cau Red for in Section 2150		DOA AN Jor			
UNITED STATE	ES DEPARTMENT OF A	GRICULTURE	1. REGISTRATION	INO. F	ORM APPROVED			
ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)			2. HEA incl EISAI RE 4 CORPO					
 REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets it necessary) 4 Corporate Dr. Andover, MA 01810 								
			CILITY LOCATIONS (Siles)					
4 Corporate Dr. An								
		RESEARCH FACILITY	f (Attach adiditional sheets if ne	ecessary or use APHIS FORM 7023A)				
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animats upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching, experiments, research, surgery or tests wer- conducted involving accompanying pain or to the animals and for which the use of app anesthetic, analgesic, or tranquilizing drugs have adversely attected the procedures, res- interpretation of the teaching, research, experiments, surgery, or tests. (An explana the procedures producing pain or distress i animals and the reasons such drugs were r must be attached to this report).	distress propriate swould sults, or tion of in these distress TOTAL NO OF ANIMALS OF ANIMALS D + E)			
4. Dogs								
5. Cats								
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8. Rabbits								
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11. Pigs								
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ASSURANCE STATEMENTS		L						
and following actual researc 2). Each principal investigator h 3). This facility is adhering to th principal investigator and ap addition to identifying the IA	ch, teaching, testing, sur- nas considered atternation scalarids and regula- oproved by the institution ACUC-approved exception or this research facility in this research facility in this research facility in the second scalario scalari scalario scalario scalario scalario scalario scalar	irgery, or experimentati ives to painful procedu ations under the Act, a ional Animal Care and ions, this summary incl has appropriate autho	tion were followed by this resear ures and it has required that exceptio Use Committee (IACUC) – A sum ludes a brief explanation of the prity to ensure the provision of a	ons to the standards and regulations be specified mmary of all such exceptions is attached to t exceptions, as well as the species and number of odequate veterinary care and to oversee the adeq	l and explained by the this annual report. In f animals affected			
CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Ecentry that the above is true, correct, and complete (7 U S C. Section 2143)								

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DATE SIGNED

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This report is required by law (r result in an order to cease and (itio 2145. Failub to jesist and to be subject	oport accord og te Br To penalties as provid	e regulation ed for in Se	ction 2150	Centerinte Salidar additional information	UISU DOA AN	· ·
ANIMAL AND F ANNUAL REPOR (TY	PE OR PRINT)	TION SERVICE	n actual res	2. HEAD(include B A S I 100 RE GROU WORC	NO 135. Cust ld 159 F BIORESEARCH CORPORATION ESEARCH DRIVE ND FLOOR ESTER, MA 01605	red	579-0036 wilh USDA
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REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	' (Attach əıli	ditional sheets if ne	cessury or use APHIS FORM 7023A.)		
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4. Dogs	0	0		0	0		0
5. Cats	0	0		0	0		0
6. Guinea Pigs	0	0		0	0		0
7. Hamsters	0	0		0	0		0
8. Rabbits	0	0		0	0		0
9. Non-human Primates	0	0		0	0		0
10. Sheep	0	0		0	0		0
11. Pigs	0	0		0	0		0
12. Other Farm Animals	0	0		0	0		0
13. Other Animals	0	0		0	0		0
ASSURANCE STATEMENTS	L	L			L		1

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SIGNA	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
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			2	14-R-01 HEAI	137, Cust ld 1658		0-0579-0036
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ANNUAL REPOR		CH FACILITY			ORCESTER FOUNDATION I		2000 C
(T)	YPE OR PRINT)				VSBURY, MA 01545	$igcap_{i}$	1000
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sheets if necessary }				10 (011-1)			
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REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditio	nal sheets if ne	ecessary or use APHIS FORM 7	023A) ·	
A.	B. Number of animals being	C Number of animals upon	D. Number of a		E. Number of animals upon experiments, research, si		F.
Animals Covered By The Animal	bred, conditioned, or	which leaching, research,	which exper teaching, re surgery, or	search,	conducted involving acco	ompanying pain or distres hich the use of appropriat	
Welfare Regulations	held for use in teaching, testing,	experiments, or tests were	conducted i accompany	nvolving	have adversely affected	tranquilizing drugs would the procedures, results, o	OF ANIMALS
	experiments, research, or	conducted involving no	distress to t			tests. (An explanation of	
	surgery but not yet used for such	pain, distress, or use of pain-	anesthelic,	analgesic, or g drugs were	animals and the reasons	ng pain or distress in thes such drugs were not use	e D+E)
<u></u>	purposes.	relieving drugs.	used		must be attached to this	report).	
4. Dogs							
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6. Guinea Pigs				· · · · · · · · · · · · · · · · · · ·			
7. Hamsters							
			<u> </u>				
8. Rabbits	-						
9. Non-human Primates							
10. Sheep						<u> </u>	
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12. Other Farm Animals					· · · · · · · · · · · · · · · · · · ·		
13. Other Animals							
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ASSURANCE STATEMENTS					1		
1) Professionally acceptable s						ic, and tranquilizing drug	s, prior to, during,
and following actual resear				d by this resea	rch facility.		
 2). Each principal investigator 3) This facility is adhering to t 				d that excentio	bes to the standards and regula	ations be specified and e	xplained by the
principal investigator and a addition to identifying the l	approved by the Instituti IACUC-approved except	onal Animat Care and ions, this summary inc	Use Committee (ludes a brief exp	IACUC) A sur lanation of the	nmary of all such exception exceptions, as well as the spe	s is attached to this an cies and number of anima	als affected
 The attending veterinarian animal care and use. 	for this research facility	has appropriate autho	prity to ensure the	e provision of a	adequate veterinary care and t	o oversee the adequacy o	of other aspects of

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)							
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED					
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ANNUAL REPOR	RT OF RESEAR YPE OR PRINT)		1	,	DRTUNE BLVD IRD, MA 02139		
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A.	B. Number of	C Number of		ional sheets it ne	E. Number of animals upon which		F.
Animals Covered	animals being bred,	animals upon which teaching,	which exp	research,	experiments, research, surger conducted involving accompa	nying pain or distress	
By The Animal Welfare Regulations	conditioned, or held for use in	research, experiments, or	surgery, a	or lests were d involving	to the animals and for which I anesthetic, analgesic, or tranc have adversely affected the p	uilizing drugs would	TOTAL NO. OF ANIMALS
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	surgery but not yet used for such	involving no pain, distress, or use of pain-	anestheti	hich appropriate c, analgesic, or	the procedures producing pa animals and the reasons such	in or distress in these	(Cois. C + D + E)
	purposes.	relieving drugs	tranquili2 used	ing drugs were	must be attached to this repo		
4. Dogs							
5. Cats				<u></u>	-		
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1) Professionally acceptable s and following actual resear					iate use of anesthetic, analgesic, an rch facility.	d tranquilizing drugs, p	rior to, during,

2). Each principal investigator has considered alternatives to painful procedures.

3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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	(Chief Execu	CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)					
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3. REPORTING FACILITY (List all I sheets it necessary.)	locations where animals	were housed or used i	in actual res	earch, testing, teac	hing, or experimentation, or held for	these purposes. Atta	ch additional
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NITROMED INC., 12 BEDFORD MA	. OAK PARK . 01730	DR.					
REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	l (Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A)		
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, festing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate		E. Number of animals upon which experiments, research, surgery conducted involving accompan to the animals and for which th anesthetic, analgesic, or trangu- have adversely affected the pro- interpretation of the teaching, experiments, surgery, or tests. the procedures producing pair animals and the reasons such must be attached to this report	or tests were ying pain or distress ie use of appropriate jilzing drugs would ocedures, results, or research, (An explanation of o ar distress in these drugs were not used	F. TOTAL NO OF ANIMALS (COIS. C + D + E)
4. Dogs			used				
5. Cats							
6. Guinea Pigs		·····	 				
7. Hamsters		· · · · · · · · · · · · · · · · · · ·					
8. Rabbits			3	94			394
9. Non-human Primates						<u></u>	<u> </u>
10. Sheep					,		
11. Piqs						······	
12. Other Farm Animals							
13. Other Animals							
ASSURANCE STATEMENTS					ate use of anesthetic, analoesic, and		

 Professionally acceptable standards governing the care, treatment, and use of animals, including approvate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, festing, surgery, or experimentation were followed by this research facility.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DATE SIGNED
11/20/00

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	ES DEPARTMENT OF A	GRICULTURE TION SERVICE	28 - 1. REGISTRATIO	N NO.	FORM APPROV≢D 0579-0036
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REPORTING FACILITY (inst all le	positions where animals	were housed or used it	n actual research, testing, tea	ching, or experimentation, or held for these pu	rposes. Attach additional
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		FAC	LILITY LOCATIONS (Sites)		
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EPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adiditional sheets if n	ecessary or use APHIS FORM 7023A.)	
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching experiments, research, surgery or tests v conducted involving accompanying pain to the animals and for which the use of a anesthetic, analgesic, or tranquilizing dr have adversely affected the procedures, interpretation of the teaching, research, experiments, surgery, or tests. (An expla- the procedures producing pain or distre animals and the reasons such drugs we must be attached to this report).	vere or distress oppropriate ugs would results, or anation of ss in these or distress TOTAL NO OF ANIMALS (Cols. C + D + E)
1. Dogs					
5. Cats	······			· · · · · · · · · · · · · · · · · · ·	
5. Guinea Pigs	3	51	7		58
7. Hamsters					
3. Rabbits				×	
 Non-human Primates 					
0. Sheep					
11. Pigs					
2. Other Farm Animals					
3. Other Animals					
ASSURANCE STATEMENTS					
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,	(Chief Ex	ecutive Officer o	QUARTES RESEAR or Legally Responsible true, correct, and complete (7	CH FACILITY OFFICIAL Institutional Official) USC Section 2143)	
SIGNATURE OF C.E.O. OR INSTITU				OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

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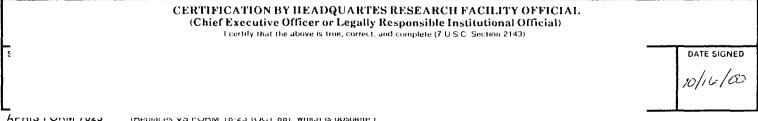
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ANIMAL AND PLANT HEALTH INSPECTION SERVICE				1. REGISTRATION	I NO.		ROVED 579-0036
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		FAC	LITY LOCA	TIONS (Sites)			
175 Crossing Blvd.	Framingham	, MA 01702				····	
REPORT OF ANIMALS USED BY O	A REAL PROPERTY AND ADDRESS OF THE OWNER OWNER OWNER OF THE OWNER						
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranguilizing drugs were used		E. Number of animals upon whice experiments, research, surger- conducted involving accompa- to the animals and for which to anesthetic, analgesic, or tranchave adversely affected the p- interpretation of the teaching, experiments, surgery, or tests the procedures producing pa- animals and the reasons such- must be affached to this repo- tion of the teaching.	y or tests were nying pain or distress the use of appropriate julizing drugs would rocedures, results, or , research, (An explanation of in or distress in these n drugs were not used	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats							
6. Guinea Pigs	_13	79	8	2	00	 	161
7. Hamsters							<u> </u>
8. Rabbits							ļ
9. Non-human Primates		······································					
10. Sheep							ļ
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ASSURANCE STATEMENTS							
 Professionally acceptable st and following actual research 					iate use of anesthetic, analgesic, an rch facility.	ia tranquilizing drugs, p	prior to, auring,

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE				1. REGISTRATION	ł NO.	FORM APPI	ROVED 9-0036
	PE OR PRINT)	CH FACILITY	н ф. с. 24 -	include Zip (4-R-0143, Cust ld 1788 VERTEX PHARMACEUTICALS, INC. 130 WAVERLY STREET CAMBRIDGE, MA 02139		iih USDA,
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REPORT OF ANIMALS HSED BY O		RESEARCH FACILITY	(Altach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A)		
A. Animals Covered By The Animal Welfare Regulations	B Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but nol yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Numbe which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, r, or lests were ted involving anying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were	E. Number of animals upon which tea experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquiliz have adversely affected the proce interpretation of the teaching, resi- experiments, surgery, or lests, Al-	tests were g pain or distress ise of appropriate cing drugs would dures, results, or earch, n explanation of distress in these	F. OF ANIMALS (Cols. C + D + E)
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5. Cats							
6. Guinea Pigs	0	0		0	0		0
7. Hamsters						<u></u>	
8. Rabbits							
9. Non-human Primates		- <u></u>		<u> </u>		<u></u>	
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11. Pigs							
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ASSURANCE STATEMENTS							
and following actual researc 2). Each principal investigator f	ch, leaching, lesting, su has considered alternati	rgery, or experimentation in the second s	ion were foll res	owed by this resear	iate use of anesthetic, analgesic, and tra rch facility. ons to the standards and regulations be		

principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) L certify that the above is true, correct, and complete (7 USC Section 2143)							
SIGNATURE		NAME & TITLE OF C.F.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
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UNITED STAT	ES DEPARTMENT OF AG	GRICULTURE		1. REGISTRATION	NO.	FORM APP	ROVED 9-0036	
ANNUAL REPOR (TY	ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) REPORTING FACILITY (List all locations where animals were housed or used in actual				2. HEADQUARI include Zip C (b)(6), (b)(7)C CHARLES RIVER LABORATORIES, INC. 251 BALLARDVALE ST WILMINGTON, MA 01887			
3. REPORTING FACILITY (List all lo sheets if necessary.)	ocations where animals	were housed or used i	n actual res	earch, lesting, leach	ning, or experimentation, or held for t	hese purposes. Atta	ch additional	
		FAC	LITY LOCA	TIONS (Sites)				
Charles River La					River Pharmservice			
251 Ballardvale	Street Wilm	ington, MA	01887		kmer Rd Southbrid		50	
Charles River		NG 27610	`		iomedical, Div. of Circle Sparks, N			
401 S. New Hope 1	Rd. Raleign	RESEARCH FACILITY) ' (Attach adir		cessary or use APHIS FORM 7023A)			
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Numbe which e teachin surgery conduc accomp distress and for anesthe	r of animals upon experiments, g, research, , or tests were ted involving sanying pain or s to the animals which appropriate atic, analgesic, or lizing drugs were	E. Number of animals upon which experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquinave adversely affected the pro- interpretation of the teaching, m experiments, surgery, or tests. The procedures producing pain animals and the reasons such of must be attached to this report)	leaching, or tests were ying pain or distress e use of appropriate illizing drugs would cedures, results, or esearch, (An explanation of or distress in these frugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)	
4. Dogs	15	22		115			137	
5. Cats	37	307		93			400	
6. Guinea Pigs			 	692			692	
7. Hamsters				338			338	
8. Rabbits	19	799	 	405			1204	
9. Non-human Primates	1219	1408		83			1491	
10. Sheep	9	114	ļ	11			125	
11. Pigs	24	38		344	······································		382	
12. Other Farm Animals								
Cattle		2427		21			2448	
Goats	8	21		3			24	
ASSURANCE STATEMENTS							• • · · · · · · · · · · · · · · · · · ·	

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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SIGNATURE CELE CONSTITUTION OFFICIAL		ATE SIGNED			
		11-17-2000			

PART 1 HEADON APTERS

Attachment to #3

Sierra Biomedical, Div. of CRL 10326 Roselle Street San Diego, CA 92121 14-R-0144

Sierra Biomedical, Div. of CRL 17667 Road 24 Tulare, CA 93274

14-R-0144

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Welfare Regulations held for use in teaching, testing, experiments, or teaching, testing, experiments, or surgery but not yet used for such purposes. experiments, or involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or involving no pain, distress, or use of pain- gitters, relieving drugs. anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or involving accompanying pain or distress, or use of pain- gitters, analgesic, or tranquilizing drugs were used anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or involving and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used 4. Dogs 5. Cats 5. Cats	0036 USDA
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5. Cats 249 1,461 6. Guinea Pigs 20 20	TOTAL NO. OF ANIMALS (Cols. C + D + E)
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b. Guinea Pigs	
7. Hamsters 20	1,710
	20
8. Rabbits	
9. Non-human Primates	
10. Sheep	
11. Pigs	
12. Other Farm Animals	<u></u>
13. Other Animals	
ASSURANCE STATEMENTS	
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CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)						
NAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				

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. Guinea Pigs				<u>. </u>			
. Hamsters			ļ				
Rabbits	4	4		- <u></u>			14
). Non-human Primates			ļ				<u></u>
0. Sheep							
11. Pigs							
2. Other Farm Animals				· <u></u>			
3. Other Animals							
SSURANCE STATEMENTS	1	L	1				<u>i</u>

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SIGN	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED				
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This report is n-quired by law in result in an order to cease and c	ensi 2143). Emilie 6. Jesist and to be subject	erport according to the To penalties as provid	rigaaatioor ed for in See	. can Jion 2150	additional information	UIBU-QUA-AN	U.
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REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILITY	' (Attach adi	ditional sheets if ne	cessary or use APHIS FORM 7023A)	•	
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4. Dogs				21			21
5. Cats						····	
6. Guinea Pigs						<u>-</u>	
7. Hamsters							
8. Rabbits							
9. Non-human Primates				~		<u> </u>	
10. Sheep				3			3
11. Pigs					l 	<u> </u>	
12. Other Farm Animals							
13. Other Animals							
RAFNIA			7	3-N/A			73 NA
Mile N/A			++	3-N/A 3 N/A			73-NA ++73 NA
ASSURANCE STATEMENTS			<u> </u>				<u> </u>

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, feaching, testing, surgery, or experimentation were followed by this research facility.

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DATE SIGNED
9-25-00

This report is required by law to result in an order to cease and	local of 430. Fail and for desist and to be subject	eport act undate the To penalties as provid	oreguiations editor in Sec	. cali Jion 2150	ciec reverse side for additional information	OLEGARIA DOA AN	NM.
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3. REPORTING FACILITY (List all sheets if necessary)	locations where animals	were housed or used i	n actual res	earch, lesting, leach	ning, or experimentation, or held for t	ihese purposes. Atta	ch additional
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REPORT OF ANIMALS USED BY C	R UNDER CONTROL OF	RESEARCH FACILITY	' (Attach adi	t ditional sheets if ne	cessary or use APHIS FORM 7023A.)		
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Numbe which e teachin surgery conduc accom distres and for anesth	r of animals upon experiments, ing, research, i, or tests were ted involving panying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were	E. Number of animals upon which experiments, research, surgery conducted involving accompan- to the animals and for which the anesthetic, analgesic, or tranquic have adversely affected the pro- interpretation of the teaching, re- interpretation of the teaching.	teaching, or tests were ying pain or distress e use of appropriate ilizing drugs would occdures, results, or esearch, (An explanation of or distress in these drugs were not used	F. TOTAL NO OF ANIMALS (Cois. C + D + E)
4. Dogs			4	6			46
5. Cats							
6. Guinea Pigs							
7. Hamsters							_
8. Rabbits		11		<u> </u>			11
9. Non-human Primates			2	1		····-	
10. Sheep		<u></u>					
11. Pigs					_		· · · · · · · · · · · ·
12. Other Farm Animals					• • • • • • • • • • • • • • • • • • •		
13. Other Animats						······································	
ASSURANCE STATEMENTS							
1) Professionally acceptable s	tandards governing the ch, teaching, testing, su				ate use of anesthetic, analgesic, and	tranquilizing drugs, p	rior to, during,

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I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATUR.

DATE SIGNED

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3. REPORTING FACILITY (List all lo sheets if necessary)	ocations where animals	were housed or used i	n actual res	earch, testing, leac	hing, or experimentation, or held for H	hese purposes. Alla	ch additional
		FAC	LITY LOCA	TIONS (Sites)			
345 Va	sser Street Fac	<u>cility</u>					
REPORT OF ANIMALS USED BY OF	R UNDER CONTROL OF	RESEARCH FACILITY	(Attach adl	ditional sheets if ne	cessary or use APHIS FORM 7023A.)		_
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate		E. Number of animals upon which the experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquit have adversely affected the proceinterpretation of the teaching, reexperiments, surgery, or tests. (The procedures producing pain animals and the reasons such of must be affached to this report).	or lests were ing pain or distress i use of appropriate lizing drugs would cedures, results, or esearch, An explanation of or distress in these rugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs							
5. Cats						** · _ · · · _	L
6. Guinea Pigs				176			176
7. Hamsters							
8. Rabbits							
9. Non-human Primates						··	
10. Sheep							
11. Pigs							
12. Other Farm Animals		 		······································			
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13. Other Animals						<u></u>	
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ASSURANCE STATEMENTS					intering of inesthetic analogsic and		

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4. Dogs	0						0
5. Cats	0				·		0
6. Guinea Pigs	0						0
7. Hamsters	0						0
B. Rabbits	0						0
9. Non-human Primates	0						0
10. Sheep	0		 			<u></u>	0
11. Pigs	0						<u> </u>
12. Other Farm Animals	0	·					0
13. Other Animals	0						0
ASSURANCE STATEMENTS					l		

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SIGNED 1/00

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This report Sheaured by law (result in an order to cease bid	2 USC 2143) Failure to desist and to be subject	report according to the To penalties as provide	e regulations can ed for its Section	96' 2150	See reverse side for additional information	Interagency Pepe 0180-DOA-AN	in the
	TES DEPARTMENT OF A PLANT HEALTH INSPEC			A-R-003		FORM APP OMB NO 0	
	نو ا			IEADOUARTER Icluite Zip Code	S RESEARCH FACILITY (Manager 1)	.	A
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3. REPORTING FACILITY (List all sheets if necessary)	locations where animals	were housed or used in	n actual research	n, testing, teach	ning, or a parameterization of the lot i	hese purposes. Alla	ch additional
		FAC	LITY LOCATION	IS (Siles)		· · · · · · · · · · · · · · · · · · ·	
Same as above							
Jamaica Plain Cam	pus, 305 Sou	th Street,	Jamaida	Plain, M	MA 02130		
REPORT OF ANIMALS USED BY O	-	RESEARCH FACILITY	(Attach adidition	al shoets if noo	cussary or use APHIS FORM 7023A)		
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of a which experi- leaching res surgery, or I conducted in accompanyi distress to t and lor whic anesthetic, a tranquikking used	iments, search, ests were ny pain or he animats he appropriate analgesic, or	E. Number of animals upon which experiments, research, surgery conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests. The procedures producing pain animals and the reasons such of nust be attached to this report.	or lests were ying pain or distress e use of appropriate ilizing drugs would cedures, results, or esearch, (An explanation of or distress in these drugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	4		0		4
5. Cats	0	0	0		0		0
6. Guinea Pigs	0	263	213		308		784
7. Hamslers	0	319	240		173		732
8. Rabbits	0	225	292		0	•	517
9. Non-human Primates	0	0	8		0		8
10. Sheep	0	0	24		0		24
11. Pigs	0	0	165		0	<u></u>	165
12. Other Farm Animals							
13. Other Animals					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Toad/Frog	285	165	79		0		244
Chicken	22	0	35		0		35
ASSURANCE STATEMENTS							

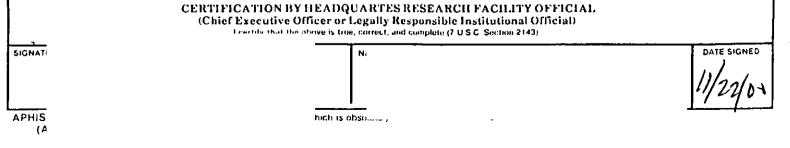
ASSURANCE STATEMENTS

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 The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.



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3. Species	(common name)_	Guinea Pig	of an	imals used	in this stud	ly.	i i
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		Optional	Colum	n E Explanation Form
	This form is intended a and its use is voluntar not required as part of understood by lay per	y. Names, addi Fan explanation	n. A Col	the Column E explanation. It is not an official form rotocols, veterinary care programs, and the like, are umn E explanation must be written so as to be s.
	1. Registration Nun	14-R-	-0035	
	2. Number	173	<u></u>	of animals used in this study.
	3. Species (common	name)	ster	of animals used in this study.
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	5. Provide scientifi relieved. State meth	c justification lods or means	why pai used to	in and/or distress could not be determine that pain and/or distress or Federally mandated testing, see
reactions	of these tissues to treatment e effects of drugs for eventur	ve so the hamsle	ar cheak Pi	oter models or cell culture has yet replicated the complex ouch system is the most reliable means available to evaluate the apy.
	6. What, if any, fede the Code of Federal number (e.g., APH)	Regulations (CFR) tit	e this procedure? Cite the agency, le number and the specific section
	Agency			_CFR

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Optional Column E Explanation Form

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: _	14-)	R-0035
2. Number	90	of animals used in this study.
3. Species (common name)_	Guinea Pig	of animals used in this study.

4. Explain the procedure producing pain and/or distress. Guinea pigs are used to measure the amount of diptheria anti-toxin in human immunoglobulin preparations. The animal experimentation is based on FDA-required protocol to establish that immunoglobulin sold for human use have no less than 2 antitoxin units/ml. A mixture of anti-diptheria serum and known amounts of toxin is injected subcutaneously and survival up to 9 hours is monitored. Survival 96 hours will indicate the presence of at least 2 antitoxin U/ml. Animals are exposed to euthenasia after 5 day survival or at well-defined signs of discomfort.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see question 6 below)

FDA Required

6. What, if any, federal regulations require this procedure? Cite the agency, the Code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

640.104 FDA CFR Agency____

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

REGISTRATION NO 14-R-0006

CUSTOME YC. 102

FORM APPROVED OMB NO 0579-0036

2 HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with

57 UNION STREET WORCESTER, MA 01608

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or heid for these purposes. Attach additional sheets if necessary.)

See Attached Listing

FACILITY LOCATIONS(sites)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, canditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures <i>producing</i> pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F OF ANIMALS (Cots. C + D + E)
4. Dogs		197	189	5	391
5. Cats					
6. Guinea Pigs		2	246	7	255
7. Hamsters			1212		1212
8. Rabbits		47	88	2	137
9. Non-Human Primates		308	500	9	817
10. Sheep			147	1	148
11. Pigs		17	234	5	256
12. Other Farm Animals					
Cattle			3		3
13. Other Animals					
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ASSURANCE STATEMENTS					

ASSURANCE STATEMENTS

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4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.F.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED 12-10-2001

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PART 1 -HEADQUARTERS

Column E Explanation

Registration Number #14-R-0006

CRL-Worcester study KTAW-124

One Column "E" study using a total of 6 Cynomolgus monkeys was approved by the IACUC to evaluate the efficacy of a test material in a model of Collagen Induced Arthritis.

Rheumatoid arthritis (RA) is the most common chronic inflammatory arthritis and affects about 1.3% of adults. It is two to three times more prevalent in women than in men. RA may begin as early as infancy, but onset usually occurs in the fifth and sixth decade. It is currently believed that an immune response to "self components of the cartilage, that is an autoimmune response, causes the disease. RA is a debilitating, chronic inflammatory disease of the diarthrodial joints in which the articular cartilage, subchondral bone and associated structures progressively are degraded.

Although the initiating event in RA has not been defined yet, a growing body of evidence indicates that cytokines like TNF- \Box and IL-1 help to perpetuate the chronic inflammatory state associated with RA. Both of these cytokines directly inhibit the synthesis of matrix and stimulate the production of additional proinflarrunatory cytokines, prostaglandins, and matrix metal loproteases which further exacerbate the destructive processes.

Despite treatment with traditional disease modifying antirheumatic drugs (DMARDS), up to 90% of patients with aggressive disease exhibit radiological evidence of bone loss within two years of diagnosis. The newly approved bioproducts (Embrel and Rcmicade), which bind to and neutralize TNF-T, can slow the progression of erosive disease. However, not all RA patients respond equally to blockade of TNF-a (clinical trials with Embrel and Remicade show ACR 50 of 20-30%) and the efficacy of this approach in preventing long-term joint and cartilage destruction is still unclear. Therefore, there is still a need of some biologic agents that slow disease progression and allow patients to enjoy a healthier and more fulfilling life.

In an attempt to explain the multiplicity of interrelated elements that contribute to the pathogenesis of RA, animal models, which mimic certain features of the human disease, have been used extensively to explore the pathogenic process. One such model is a collagen-induced arthritis (CIA) which has been suggested as a relevant model of RA based on certain similarities to human RA. The similarities are as follows: a) synovial pannus, marginal erosions of subchondral bone and cartilage, and narrowing of the joint space are primary morphologic features, b) symmetrical inflammation of peripheral diarthrodial joints are present, e) humoral and cell-mediated immunologic responses to collagen can be demonstrated, d) fibrin, immunoglobulin and complement are deposited in the synovium, and e) genes within the major histocompatibility complex which control the immune response to collagen are linked to clinical expression of the disease.

Collagen-induced polyarthritis has been generated in a limited number of species. CIA can be produced in rays and certain strains of mice by the interdermal injection of soluble, heterologous native type II collagen emulsified in adjuvant. The disease is characterized by a chronic proliferative synovitis, which develops about 2 weeks postimmunization *in* rats and later intervals in mice. Both humoral and cell-mediated immune responses are mounted to the soluble antigen, as evidenced by the presence of anti-collagen II antibody in the sera of arthritis animals and delayed-type hypersensitivity reaction to collagen, as determined by skin test.

Extension of CIA to the non-human primate would provide critical information to its utility as a relevant model of human RA. The study of arthritis in non-human primates is very important, because they are known to share many similar immunologic features with human disease due to their close phylogenetic relationship with humans. Over the past decade, disease models in non-human primates (rhesus and cynomolous monkeys) have become increasingly important for safety and efficacy evaluation of new therapeutic modalities that cannot be tested in rodents. The therapeutic activities and adverse side effects of biological molecules depend on functional interaction with their target antigens. The poor reactivities of most human biologicals with the relevant target structures in rodent species make disease models in rodents invalid in this respect. The phylogenetic relationship and consequentimmunological similarity between man and monkeys make this non-human primate CIA model an attractive test system for human-specific biological molecules with anti-rheumatic potential. To be able to assess the value of a new therapy and to compare its efficacy with existing ones, the effect on the disease process must be measured not only in a qualitative (histological studies), but also in a quantitative manner. A semi quantitative scoring system that is based on clinical diagnosis will be considered. Moreover, body weight as a measure of general disease expression and plasma C-reactive protein levels to monitor inflammation and urinary excretion rates of collagen cross4inks representing destruction of joint tissues will be included in our study.

The Sponsor has reasoned that a high affinity, neutralizing antibody LY634923 (humanized antibody) to a validated target would make a superior therapeutic agent for RA patients for a number of reasons: a) a long half life of LY634923 may result in a dosing frequency as low as 4 to 7 days, b) due to high specificity small amounts of LY634923 are required to treat RA patients and c) LY634923 is less immunogenic than a marine antibody. In conclusion, a CIA model in monkeys is extremely valuable for testing the safety and efficacy of LY634923. This model would also lead to the determination of first human dose and future toxicology studies.

The conditions that cause this study to be Category ,"E" are the chronic inflammation of the joints which can be painful. Therapeutics would interfere with the evaluation of efficacy of the test article, therefore, animals cannot be treated with analgesics or anti-inflammatory drugs.

Disease markers such as degree of inflammation (swelling, heat, pain) and mobility were used to determine clinical scores. Clinical scoring (such as evaluation of fever, immobility, apathy, appetite, joint swelling, stiffness, pain. flexibility) was used to determine efficacy and would be impacted by use of analgesics or anti-inflammatory drugs.

Supportive care was provided to animals showing severe clinical signs. Supportive care included:

- Body weights were recorded once weekly for the first three weeks, then twice weekly thereafter. Additional body weights were recorded as needed in order to assess the condition of the animals.
- 2. Animals were acclimated to high calorie foods (e.g. Ensure) prior to model induction. These high calorie/nutrient rich foods were administered as needed, and animals were hand fed other food items (e.g. fruit. primatreats) as necessary.
- 3. Water bottles were attached low in the cage to assist in eating and drinking.

Page 2 of 5

4. Animals were acclimated to conscious restraint as part of the study design, and may were tube fed consciously if necessary.

Tube feeding:

Animals were supplemented as necessary with a gruel consisting of primate biscuits, Ensure, multivitamin, Prang and Nutrical, or other suitable ingredients as recommended by the Attending Veterinarian.

5. Upon induction of CIA, the Attending Veterinarian was notified of the status of the study animals, and evaluated animals for additional supportive care/determination of morbundity as necessary.

Recommendations for euthanasia:

The following are guidelines for recommendation of euthanasia. Each animal will be assessed individually, taking into account the full history of the animal and the time course of clinical signs prior to euthanasia. A decision to euthanize any animal will be made after discussions with both the Study Director and Attending Veterinarian.

- 1. Severe clinical signs, which render the animal unable to sit erect.
- Inability to or failure to eat/drink for >2 days. without signs of recovery. Supportive care (see above) will be given during periods of anorexia.

Note: Supplemental foods and fluid therapy may be administered at any time during this study.

- 3. Any condition that would require 24 hour supportive care for the animal.
- Weight loss of >20% with no indication of recovery (continued anorexia, or physical inability to eat).

CRL-Worcester study KLAW-128

Three pigs that were used on a surgery study to assess the cardioprotective effects of a test compound in myocardial ischemia and reperfusion in minipigs were found dead following surgery. The study was originally classified as Column "D", but the pain category was revised to "E" for these animals at study termination.

CRL-Worcester study ASAW-108

One pig that was used on a study to Determine the Effect of a Test Article on Full Thickness Wound Healing in Pigs exhibited signs of stressed behavior with labored breathing and apparent frothy blood from the mouth on Day 3 post-surgery. When the animal was examined it became agitated and flushed_ Before any type of sedative was able to be administered the animal died. Gross findings at necropsy suggested Porcine Stress Syndrome. The study was originally classified as Column "D", but the pain category was revised to "E" for this animal at study termination_

CRL-Worcester study EKAW-102

One pig that was used on a Pharmacokinetic Study of Test Compounds in Minipigs died following an IN. bolus of the test article. The pig showed anaphylactic response and the Attending and Clinical Veterinarians were called to assess the situation. The animal died shortly thereafter. The study was originally classified as Column "D", but the pain category was revised to "E" for this animal at study termination.

CRL-Worcester study YGAW-102

One sheep that was used on a surgery study was found dead on Day 3. It had shown lethargy only on Day 3. Death was most likely due to surgicaUrecovery complications. The study was originally classified as Column "D", but the pain category was revised to "E" for this animal at study termination.

Page 3 of 5

CRL-Worcester study LIAW-151

One rabbit that was used on a study to determine the Pharmacokinetics of a Test Article Following Multiple Oral Administration to Female New Zealand White Rabbits was unable to be dosed on Study Day 3 due to an apparent obstruction. The animal had bitten its tongue during the dosing attempt and had aspirated some blood and appeared stressed. The animal was observed by the veterinarian and it was later decided not the dose the animal for the remainder of the study. The study was originally classified as Column "C", but the pain category was revised to "E" for this animal at study termination because the animal was not "treated" (distress was not alleviated through the administration of appropriate anesthetic, analgesic or tranquilizer drugs) and was allowed to recover on its own. The animal was monitored for general health for the duration of the study and was euthanized at the end of the study.

CRL-Worcester study LIAZ-148

One rabbit that was used on a study to determine the Excretion of a Test Material following a Single Oral Dose to New Zealand White Rabbits died during the process of dose administration (no test article was administered). There were 2 attempts to insert the feeding tube. On the first attempt the animal started to kick out of its restraint (wrapped in towel) and the attempt was aborted_ The animal was allowed to calm down, was re-wrapped, and the second attempt was started. This attempt was also stopped when the animal appeared stressed. The animal was being calmed by the restraining tech when it was realized that the animal had died. The study was originally classified as Column "C", but the pain category was revised to "E" for these animal at study termination.

CRL-Worcester study RXAD-107

Four dogs on a study to screen compounds for metabolism and pharmacokinetics had unexpected deaths after administration of a test article. Animals were necropsied and observed to have gastrointestinal hemorrhaging. The study was originally classified as Column "C", but the pain category revised to "E" for these four animals at study termination.

CRL-Worcester study DPKW-104

Two guinea pigs used to screen compounds for metabolism and pharmacokinetics were found dead during the course of the study. The study was originally classified as Column "D", but the pain category revised to "E" for these two animals.

CRL-Worcester study MBAW-214

Three nonhuman primates died from apparent toxicity after test article administration. The study was originally classified as Column "D", but the pain category was revised to "E" for these three animals.

CRL-Worcester study 2-928

One dog maintained in a colony instrumented with telemetry devices was found dead after being treated by the veterinary staff the previous day for dehydration and having a tender abdomen. The animal was treated with analgesics and fluids. The study was originally classified as Column "D", but the pain category was revised to "E" for this animal at study termination.

Page 5 of 5

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3. REPORTING FACILITY (List all sheets if necessary)	locations where animals	were housed or used	in actual research, testi	ng, teaching,	, or experimentation, or held for t	hese purposes. Atta-	ch additionat
		FA	CILITY LOCATIONS (Site	is)			
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REPORT OF ANIMALS USED BY O	R UNDER CONTROL OF	RESEARCH FACILIT] / (Attach adiditional she	ets if necess	ary or use APHIS FORM 7023A.)	· · · · · · · · · · · · · · · · · · ·	
A Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs	D. Number of animals which experiments, leaching, research, surgery, or tests wi conducted nivolvin- accompanying pair distress to the anim and for which appr anesthetic, analges tranquilizing drugs used	ere 9 n or nals opriate	Number of animals upon which experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui- have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report).	or tests were ring pain or distress is use of appropriate lizing drugs would cedures, results, or esearch, An explanation of or distress in these rugs were not used	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
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5. Cats							
6. Guinea Pigs						· · · · · · · · · · · · · · · · · · ·	
7. Hamsters	0	290			676		966
8. Rabbits	0	35			· · · · · · · · · · · · · · · · · · ·		35
9. Non-human Primates			· · · · · · · · · · · · · · · · · · ·		·		
10. Sheep							
11. Piqs							
12. Other Farm Animals							
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ASSURANCE STATEMENTS	l I		· · · · · · · · · · · · · · · · · · ·				

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(Chief Executive	ITEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) he above is true, correct, and complete (7 U.S.C. Section 2143)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C E O. OR INSTITUTIONAL OFFICIAL (Town of Ormi)	DATE SIGNED
		11-27-00
APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 8 (AUG 91)	8), which is obsolute }	foce

PART 1 - HEADQUARTERS

Facility:

GelTex Pharmaceuticals, Inc. 153 Second Avenue Waltham, MA 02451

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Facility Registration Number: 14-R-0064

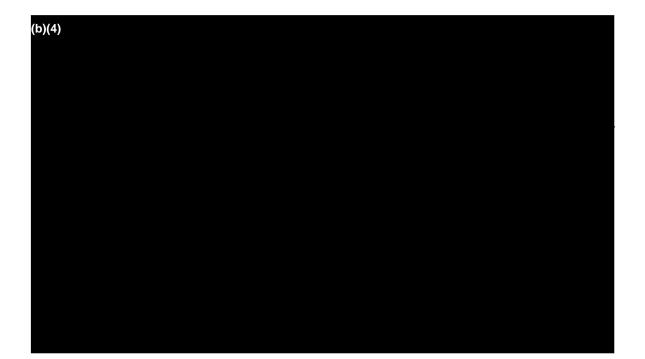
Explanation of Animals Listed in Column E

Species: Hamster (Golden Syrian Hamster) Number of animals: 676

Animals listed under column E in GelTex's 2000 Annual Report of Research Facility involved hamsters that were a part of two different projects.

The first project involves developing a non-toxic, non-antibiotic drug for therapy of *C. difficile* infection.

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