Column E Explanation

Registration Number: Certificate Number 93-F-008, Customer Number 1202

Number and Species of Animals: 70 Chinchillas

Explanation of Procedure Causing Possible Distress: Individual housing in an unfamiliar environment and exposure of chinchillas to 4kHz octave band noise at 105 dB sound pressure level for a duration of 6 hours or an impulse noise of 155 dB (75 repetitions at 1 impulse/sec.). This procedure is considered non-painful but may induce distress. This exposure induces cochlear hair cell loss and a significant hearing threshold shift. This model is utilized to test various means to protect against cochlear hair cell loss and to potentially reverse cochlear hair cell loss.

Scientific Justification for Unrelieved Potential Distress: The potential distress of individual housing in an unfamiliar environment is being relieved through a habituation procedure for our experimental animals. This leaves the actual noise exposure as our only unrelieved potential for distress as defined by the AWA. Alleviation of this potential distress through the use of anesthetics or analyzesics is scientifically contraindicated for the following reasons.

General Considerations

- Generalized anesthesia for a six-bour duration would be medically contraindicated and in itself leads to a painful and distressful recover period.
- Animal models without anesthesia mimics human subjects under noise exposure better than the anesthetized animal.
- c. Noise exposure should try to replicate the real world as much as possible; we typically are not exposed to noise in an anesthetized state. The administration of drugs to sound exposed animal's effects several important aspects of sound transduction in the inner ear and electrophysiological measurements of inner ear function. Because these confounded results from drugged animals cannot be extended to human models, these drugged models are not used in hearing research. In the course of the Medline literature review going back over 20 years some 5500 abstracts involving loud sound exposure, only about a dozen utilized anesthetized animals and in those cases the focus of the studies was to investigate the effects of those drugs on cochlear electrophysiological measurements.
- d. Noise exposures in normal animals always result in significant variations in threshold shifts. These variations may result from a variety of factors such as, overactive middle ear muscles, efferent feedback, and state of the animal. Now there may be evidence that a drugged animal gives larger and more consistent threshold shifts because of the elimination of the aforementioned variables.

Specific Considerations

a. Sodium pento-barbital has been shown to have a significant effect on total middle ear impedance and on the shape of the tympanograms.²

Column E Explanation cont.

- b. The use of ketamine causes significant increases in distortion-product otoacoustic emissions. This result indicates that tonic activity levels in the cochlear efferents are reduced by the anesthetic effects, which could lead to greater damage due to loud sound exposure. 14
- Isofhurane significantly attenuates auditory steady state response (which
 is a response of the brain to auditory stimuli) in a dose dependant
 manner.⁵

References:

- 1) Popelar, I., et al. Effect of noise on auditory evoked responses in awake guinea pigs. Hearing Research. 26(3):239-47, 1987
- 2) Earnes, B.L., et al. The role of the middle ear in acoustic trauma from impulses. Laryngoscope. 85(9): 1582-92, 1975
- 3) Harel, N., et al. The effects of anesthesia on otoacoustic emissions. Hearing Research. 110(12): 25-33
- 4) Puel, Jean-Luc, et al. Perspectives in inner ear pharmacology and clinical applications. In Cochlear pharmacology and noise trauma. Eds. D. Prasher and B. Canlon. NRN Publications. London; 1998
- 5) Plourde, G., et al. the effect of isoflurane on the steady state response and on consciousness in human volunteers. Anesthesiology. 89(4): 844-51, 1998

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 42-F-0004 CUSTOMER NUMBER: 1586 FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Nat'L Vet. Svcs Lab Box 844

Ames, IA 50010

Telephone: (515) 663-8504

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, 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	В.	Number of animal being bred, conditioned, or held for use in leaching, lesting, experiments, research, or surgery but not ye used for such purposes.	C.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an 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 use of appropriate enesthetic, analgesic, or tranquitized ugs would have adversely effected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.	F. TOTAL NUMBE OF ANIMALS (COLUMNS C + D + E
4. Dogs								
5. Cats								
6. Guinea Pigs			· · :		235			235
7. Hamsters				10				10
8. Rabbits				2	89			91
9. Non-human Primates								
10. Sheep				462				462
11. Pigs				104	 			104
12. Other Farm Animals								··········
Cattle				15	-			15
3. Other Animals								
E1k				6	 			6
Horses			*********	8		<u> </u>		8

ASSURANCE STATEMENTS

- 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 reseteaching, 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 approximately 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, fits summary inbrief 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 use.

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

DATE SIGNED

(AUG 91)

/

NADC #42-F-007

This is a pathogenesis study of Swine Influenza Virus (SIV).
 Animals are expected to develop mild signs of pyrexia, anorexia, listlessness, sneezing or coughing.

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The un-inhibited onset of the clinical signs are necessary to judge the pathogenic effects on the challenge virus and to evaluate the efficacy of the respective vaccines. For this reason anti-pyretics, expectorants, or stimulants would alter the clinical signs. These are the drugs that would be commonly be used to relieve the pain or distress of swine infected with influenza virus. If severe clinical signs develop. Animals will be euthanitized

This is a study to determine the effect of transport on the amount of salmonella excreted in the feces of "carrier" swine.

The effects must be allowed to manifest themselves without therapeutic drugs otherwise the results would not be valid. Antibiotics and anti-pyretics necessary to aleive the symptoms of salmonella infected pigs, lethargy, hyperthermia and diarrhea, would alter the colonization in the gut and alter the amount of salmonella excreted. Severely ill pigs, loss of motor skills, or profuse diarrhea for more than 48 hours will be euthanitized.

This is a study to determine the effect of norepinephrine treatment of salmonella infected pigs on the virulence of the disease.

The use of antimicrobial, antidiahreal and antipytretics are precluded. Pigs may develop mild symptoms after initial exposure. The disease must be allowed to develop symptoms to provide quality samples, reflecting either an increased virulence of the agent or increased shedding. These signs being febrile response, enterocolitis, increased respiration, or mild depression. Animals that lose normal motor skills or develop profuse diarrhea for 48 hours will be euthanitized.

This is a study to better understand the pathogenesis and virulence of PRRSV in swine. A part of the study is to understand virus distribution in the tissues following infection.

The use of anti-pyretics and / or anti-inflamatory drugs would alter these experimental findings. Only mild symptoms of mild dysnea, pyrexia, anorexia or listlessness are expected. Pigs that are unable to rise or develop labored breathing will be euthanitized.

This is a study to test the efficacy of recombinant based vaccines. Vaccines are for protection from swine influenza and PRRSV. Parameters measured include temperature weight gain, nasal shedding, immune responseas and lung lesions.

The parameters monitored may be altered if anti-pyretics, anithiotics, or expectorants were administered to decrease the pain or discomfort of the symptomatic pigs. Therefore the use of these

NADC #42-F-007

products are precluded. Disease must be allowed to manifest with the exhibition of symptoms and lesions. Symptoms are expected only after the animals are challanged. Only mild signs are expected. Animals that exhibit labored bresathing or are unable to ruise when prodded will be euthanitized

Sheep:

- The objective of the study is to determine the effect of ovine respiratory syncytial virus (ORSV) on B cell responsiveness. Additionally the persistence of ORSV in lymphocytes will be better characterized.
- 2. The use of anti-inflammatory or anti-histamine drugs would be expected to modulate the character of the lymphocytes. This was a study to observe the natural course of the disease, and the use of trial drugs to reduce the symptoms, indicators of pain or distress, would be expected to alter the natural course of the disease.

Raccoons:

- The objective of the study is to develop an animal model to straintype the TSE's in the United States using raccoons. The time of onset of terminal symptoms will be the primary parameter used.
- 2. The disease must be allowed to progress to the point of the development of diagnostic symptoms. The use of sedatives or tranquilizers may relieve the symptoms, but would alter the exhibition of the symptoms, and, perhaps, prolong the symptomatic period. To minimize the period of pain or distress, animals that become recumbent will be euthanitized. If animals show indications of producing self-inflicted injury, they will be euthanitized.

Hamsters:

- The purpose of the study is to evaluate leptospira clones for virulence. Weanling hamsters will be inoculated with live organisms.
- Observation of clinical signs and how signs progress is necessary to evaluate virulence. Alleviation or relieving of the signs would interfere in the assessment. The primary signs used to evaluate the disease are jaundice or hemorrhage. To relieve the pain or distress as the result of the infection would reduce the level of jaundice or hemorrhage. To minimize severe or terminal signs, animals are observed every eight hours and any animal exhibiting hemorrhage is euthanitized.

Column E Explanation

This form is intended as an aid to completing the Column E explanation. It is not an efficial 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:	34-R-0027
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- 2. Number 5199 in column E of animals used in this study.
- 3. Species (common name) Guinea Pig of animals used in the study.
- 4. Explain the procedure producing pain and/or distress.

Animals receive either virulent organisms or toxins in vaccination/challenge studies to evaluate potency of vaccine products.

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 Item 6 below)

Death or survival is the endpoint used in the evaluation of vaccine products. The use of analgesics has the potential for causing misinterpretation of test results, and could alter time to death. Animals challenged with organisms die within hours of becoming ill. Animals challenged with toxin are considered dead and are removed from the test when moribund.

 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):

Agency FDA 21CFR 610.10; 600.3(5)

1) Product License 1260/103821

2) USP Method (Monograph, Pharmacopeial Forum, July-August 2003, page 1002)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

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1. CERTIFICATE NUMBER: 43-R-0014 CUSTOMER NUMBER: 1415 FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Boehringer Ingelheim Animal Health Inc 2621 N Belt Hwy St Joseph, MO 64506

Telephone: (816) -233-2571

3. REPORTING FACILITY (List at locators where animals were housed or used in actual research, leating, or experimentation, or held for these purposes. Attach additional elects if necessary)

FACILITY LOCATIONS (State) - See Attrobed Listing

A. Animals Covered By The Animal Welfars Regulations	B. Number of animal being bred, conditioned, or hald for use in seaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which leaching, research, experiments, or teste-selled involving no pair, cleares, or use or pein-realizating chugs.	D. Humber of animals upon which appervents, teaching, research, surgery, or leads were conducted thrustying essentially animals an for which appropriate animals are translating animals an unauthorized animals and translating drugs were used.	E., Number of animals upon which likeching, experiments, research, surgery or teets were conducted involving accompanying pain or distrines to the animals and for whithe use of appropriate amesthesis, analigesis, or branquility drugs would have advantally effected the procedures, resources, and the conduction of the procedures surgery, or teets. (An explanation of the procedures producing path or distrines in these animals and the reservance such drugs were not used must be attached to this report.	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0	24	0	0	24
5. Cats	0	5	_0	0	5
5. Guinea Pigs	0	2.146	546	832	3,524
7. Hamsters	0	1,210	0	6.240	7,450
8. Rabbits	0	1.883	0	0	1.883
9. Non-burnen Primetes	N/A				,
0. Sheep	NIA				
1. Pigs	N/A				
2. Other Farm Animals	N/A				
3. Other Animals	N/A				

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards povering the care, treatment, and use of animals, including appropriate use of animals, analysis, and tranquilizing drugs, prior to, during, and following accusives researching, teeting, surgery, or experimentation were followed by the research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) The facility is eithering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be apacified and explained by the principal investigator and applicable for any interpretable (IACIAC). A summary of all such exceptions is attached to this assured report. In addition to identifying the IACIAC-approved exceptions, this summary interpretable of the exceptions, as well as the apacies and number of arrivals affected.
- 4) The attending veteriorise no tribs research facility has appropriate authority to ensure the provision of adequate veteriority pare and to premise the externiority of other research of othe

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	APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 86), which is obscience)	
	(AUG 91)	

See adacted form for additional information. 12-04 Splensgency Report Control No

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 47-R-0010
CUSTOMER NUMBER: 1550

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Schering-Plough Animal Health 21401 West Center Rd Elkhom, NE 68022

Telephone: (402) -289-6300

1. REPORTING FACILITY (List all locations where animals were housed or used in actual research, teating, or experimentation, or held for these purposes. Attach additional sheets a necessary)

FACILITY LOCATIONS (Sites) - See Alached Listing

Animate Covered By Yhe Animal Wattere Regulations	B. Number of snimal being lived, or held for use in teaching, teaching, expensions, research, or surgery but not ye used for such purposes.	C. Number of animals upon which lesching, research, experiments, or less were conducted involving no pain, dwiress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, seching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate ensembles, anaigestic, or tranquilizing drugs were used.	E, Number of animats upon which teaching, experiments, neederch, surgery or less were conducted involving accompanying pein or distress to the animate sind for whithe use of appropriate ensethetic, analysistic, or tranquitz drugs would have adversely effected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animats and the reset auch drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
4. Dogs	0	502	55	7	564
5. Cate	30	436	0	0	436
6. Guinea Pigs	1	414	0	39	453
7. Hamsters	197	3612	333	1829	5774
8. Rabbits	0	0	350	0	350
9. Non-human Primates	0	0	0	0	0
D. Sheep	0	0	0	0	0
1. Pigs	0	0	0	0	0
2. Other Farm Animala	0	0	0	0	00
3. Other Animals					
Ferrets	0	0	0	15	15
Mink	28	193	0	79	272

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, traetment, and use of eramals, including appropriate use of ensolatic, energetic, and tranquilizing drugs, prior to, during, and following actual reserved exacting, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered atternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required thet exceptions to the standards and regulations be specified and explained by the principal investigator and apprintment Care and Use Committee (ACUC-approved exceptions, this summary or brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research fective has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other espects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)					
SIGNATURE O	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			

(AUG 81)

(Replaces VS FORM 18-23 (OCT 88) which subbsolets.)

24 204 /

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cases and desist and to be subject to parathes 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. 65-R-0002 CUSTOMER NO. 837 FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

MISSISSIPPI STATE UNIVERSITY P.O. BOX 6343 617 ALLEN HALL

MISSISSIPPI STATE, MS 39762 (662) 325-3570

 REPORTING FACILITY (List all focations where animals were housed or used in actual research, (esting, feaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(stes)

See Attached Listing

Mississippi State University Mississippi State, MS 39762

A. Animals Covered By The Animal Weltare Regulations	Number of animals being bred, conditioned, or held for use in teaching, teating, separiments, ressend, or surgery but not yet used for such purposes.	C. Number of animals upon which leaching, research, experiments, of lests were conducted envolving 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 pairs or distress to the animals and for which appropriate enesthetic, antifipasic, or tranqualizing drugs were used.	E. Number of enimets upon which teaching, experiments, research, surgery or least were conducted involving accompanying pain or draftrees to the enimets and for which the use of appropriate enesthetic, enrelgeetc, or tranquilizing drugs would have adversely affected the procedures, results, or literpretation of the teaching, research, experiments, surgery, or leads. (An explanation of the procedures producing pain or distress in these enimets and the research such drugs were not used must be attached to this report).	F. TOTAL NO. OF ANIMALS {Cols. C+ D+E}
4. Dogs	8	40	200		240
5. Cats	0	0	10	-	10
8. Guines Pigs	0	0	0	,	0
7. Hamsters	0	0	0		0
3. Rabbits	0	2	0	·	2
P. Non-Human Primates	0	0	0		0
10. Sheep	0	3	0		3
f1. Pigs	0	54	10		64
12. Other Farm Animals					
Cattle	0	3	9		12
3. Other Animals					
Goats	0	2	0		2
Horses	0	20	12		32
	0	10	0		

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgeate, 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 atternatives to painful procedures.

(AUG 91)

- 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 the exceptions is attached to this emousl 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.
- The electring veterinarism for this research facility has appropriate authority to ensure the provision of edequate veterinary care and to oversee the adequacy of other aspects of entirel care and use.

	(Chief Executiv	BY HEADQUARTERS RESEARCH FACILITY OFFICIAlle Officer or Legally Responsible Institutional officialle above is true, correct, and complete (7 U.S.C. Section 2143)	1	
SIGNATURE OF C.E.O. (DE INSTITUTORIAL OFFICIAL	NAME & TITLE OF CEO OF MOTOR	'rint)	DATE SIGNED
			·	11/18/03
APHIS FORM 7023	(Replaces VS FORM 18-23 (Oct 86)	, which is outstreet	PART 1 -	HEADQUARTERS

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. 65-R-0002 CUSTOMER NO. 837

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

 HEADQUARTERS RESEARCH FACHLTY (Name and Address, as registered with USDA, include Zip Code)

MISSISSIPPI STATE UNIVERSITY P.O. BOX 6343 617 ALLEN HALL MISSISSIPPI STATE, MS 39762 (662) 325-3570

Anknels Covered By The Animal Welfere Regulations	B. Number of animals being bred, conditioned, or held for use to teaching, testing, experiments, rasearch, or surgery but not yet used for such purposes.	C. Number of animals upon in which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of enimels upon which experiments, teaching, research, surgery, or less were conducted involving accompanying pain or distress to the enimels and for which appropriate enestmetic, analgesic, or franquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distrists to the animals and for which the use of appropriate amenthetic, analysisic, or franquisting drugs would have adversely affected the procedures, results, or interpretation of the treching, 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 (Cots, C + D + E)
Whitetail deer	0	49	0		49
Gray fox	0	11	<u> </u>		11
Red fox	0	1	0		1
Cougar	0	1	0		<u> </u>
Black bear	0	1	0		
Raccoon	0	1	0		1

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of sneethetic, analysesic, 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 atternatives to pentful procedures.

(AUG 91)

- 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 (ACUC). A summery of all the exceptions is attached to this animal report. In addition to identifying the IACUC-approved exceptions, this summery includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- A) The attending veterinarian for this research faculty has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other asserts of asserts from and the

CERTIFICATION BY	HEADQUARTERS RESEARCH FACILITY OFFICIAL		
(Chief Executive C	Officer or Legally Responsible Institutional official)		
	cove is true, correct, and complete (7 U.S.C. Section 2143)		
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.F.O. OR INSTITUTIONAL OFFICE	¹nt)	DATE SIGNED
			1/9/03
APHIS FORM 7023A (Replaces VS FORM 18-23 (Oct 85), v	which is obsolets	PART 1 - HE	ADQUARTERS

This report is required by law (7 USC 2143).	Facura to report according to the regulations can
	be subject to penalties as provided for in Section 21/

See effectived form for CT 0 6 2004 cy Recort Control N

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1, CERTIFICATE HUMBER: 22-R-0069 CUSTOMER NUMBER: 185

FORM APPROVED ONB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Consumer Product Testing Co Inc. 70 New Dutch Lane Fairfield, NJ 07004

Telephone: (973) -808-7111

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, basing, or superimentation, or haid for these purposes. Attach additional sheets if recessary)

FACILITY LOCATIONS (Stee) - See Alached Listing

A	B Manhaudan	C. Number of	B		F.
A. Animals Covered By The Animal Wettere Regulations	B. Number of animal being bred, conditioned, or held for use in lesching, lesting, apperments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, aspertments, or seas were conducted evolving no pain, deatwee, or use or pain-releving drugs.	D. Number of animets upon which supervisorits, feedbirg, research, surgery, or tests were conducted involving accompanying pain or dispress to the primite an lor which appropriate enesthetic, analgests, or tranquisitating drugs were used.	E. Number of animets upon which leaching, experiments, restaurch, surgery or tests were conducted involving accompanying pain or dispress to the animate and for whithe use of appropriate anesthetic, eneignetic, or hampitals drugs would have adversely effected the procedures, new or interpretation of the teaching, research, experiments, strayery, or tests. (An explanation of the procedures producing path or distress in these entmets and the resort such drugs were not used must be attached to this report.	TOTAL NUMBE OF ANMALS (COLUMNS C+D+E
4. Dogs			Personal Age and Big Man		
5. Cats					
5. Guinea Pigs	223	2108	0	- 133	0041
7. Hamsters	4	24	0	0	2241 24
8. Rabbita	21	76.2	0	0.7	255
9. Non-human Primates					-855
0. Sheep					
1. Pigs					
2. Other Farm Animate					
3. Other Animals					777 <u></u>
ASSURANCE STATEMENTS					

- 2) Each principal investigator has considered atternatives to painful procedures
- 2) This facility is achieving to the standards and regulations under the Act, and if has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximate facility in the committee (IACUC). A susremary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approxed exceptions, it is summary in:

	and the state of t	What care and use.
	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
1	NAME & YITLE OF C.E.O. OR INSYTTUTIONAL OFFICIAL (Type or Pyte)	10/4/04
APHIS FORM 7023 (AUG 91)	(Replaces VS FORM 18-23 (OCT 88), and is concises.)	10/4/04

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ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)				1. REGISTRATION NO. CUSTOMER NO. 21-R-0192 1791			FORM APPROVED ONE NO. 0579-0004	
				2. HEADQUARTERS RESEARCH FACSITY (Name and Address, or registered with USCA Include 2ip Code) BROCKMAYEN SCIENCE ASSOCIATES LLC BLDG, 490 P.O. BOX 5000 UPTON, NY 11873 (631) 344-3362				
 REPORTING RACILITY (Link sheets if necessary.) 	all locations, where arimple	ware housed or used in	pchaef remearch	, teating, teaching,	or separations	Mon, or held for thems p	urpowe. Allech add	Marai .
			ACALITY LOCA	TIONS(see)				
REPORT OF ANIMALS USED IN	OR UNDER CONTROL O	PASSEARCH FACILITY	(Assect) words	rai shquia il recas	sery or was AF	HS POPM 7035A)		
A. Anterelle Covered By The Anterel Wolfare Regulations	B. Humber of entirests being treat, conditioned, or next for upe in exacting, separate, research, or surgery but not you would fee such purposes.	C. Number of private upon which teaching, research, experiments, or losts were conducted involving no pair. Certeux, or use of pain- callering drugs.	which are inaction, aurgery, conducte accompa distress I and for w anestheb	of entensis upon pediments, numerich, or leafs were of involving nying path or o the entensis high seproprise c, aneignaic, or ong drugs were	terperinal conducte to the and annestadi have adv interpreta anpedras de proce destras	all animpts upon which his price, these policy of the history or the product of t	r lauts were op pain or distract we of appropriate drug drugs would advery, results, or earth, for applementar of	F. TOTAL HO. OF AHMALS (Cals. C+ O+E)
4. Dogs								
5. Cats								
8. Guinea Pigs								
7. Hamsters					1			
8. Rebbits	2		1 2		1			2
9. Non-Human Primates	10)		· · · · · · · · · · · · · · · · · · ·		10
10, Sheep								
f f, Pigs								
12. Other Farm Animals								
13. Other Anizzale								
	 							
	† -							
ASSURANCE STATEMENTS	<u> </u>							
Professionally acceptable at and following sched research Zeich principal breastingstor? This facility is adversing to its principal treastingstor and a profession is identifying the IA- d. The advanting valentierian is absects of unless come and is	we considered whenever w Menderds and regulations proved by the institutions of CUC-approved exceptions.	to paintul propedures. I under the Act, year II ne Intred Care and Use Co. Pill marrance industria	n Inquired Sept	menotions to the s	independent and o	equinders he apacitied to this	and explained by the	
	CERTIFIC (Chief E.	ATION BY HEAD	QUARYERS	RESEARCH	FACILITY	OFFICIAL.		·
IGN)	OFFICE	Lange and services in 117	O. UDSTRUL AN	COOLSTANDS 17 LT	S.C. Basilian	2549) FFICIAL (Type of P	oto0	DATE SIGNET
PHID FORM 7023	(Propinces VS FORM 18-03	1 (Oct 60), retains to same	oleta		`	· .	PART 1-HEA	7/13/07
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	7/13	107			v			

See reverse si additional info. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 15-R-0004

CUSTOMER NO. 268

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zio Code)

UNIVERSITY OF RHODE ISLAND CARLOTTI ADMINISTRATION BLDG KINGSTON, RI 02881

A. Animals Covered By The Animal Welfare Regulations	B. Number of enimels 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 pair, distress, or use of pair-malleving 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 enesthetic, analystic, or tranquillaing drugs were used.	E. Number of entimate upon which teaching, experiments, research, surgery or tests were conducted involving accompanying peln or distress to the entimate and for which the use of appropriate enesthatic, analgesic, or tranquitizing 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 animates and the research surgery, and though were not used must be attached to this report).	F. TOTAL NO OF ANIMAL (Cols. C + D + E)
cows		10			10
horse		1 .			1
goets		3 ,			3
Shrews		77			77
chipmunks		118			118
Ducks			10		10
pigeons	20				,,,
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				-	
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- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analysesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, feeting, 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 (MCUC). A summary of all the 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 veterinaries for this research facility has eppropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of enimal care and use.

SIGNATURE OF C.E.O. OR	(Ottos Executive	above is true, correct, and comp	EARCH FACILITY OFFICIAL Isible Institutional official)		
1 STATE OF C.E.O. OR	INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O.	OR INSTITUTIONAL OFFICIAL (Type	or Print)	DATE SIGNED
					11/26/2003
APHIS FORM 7023A (AUG 91)	(Replaces VS FORM 18-23 (Oct 88), which is obsolete		PART 1 - HE	ADOLIARTERS