See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 54-R-0001

CUSTOMER NUMBER: 276

FORM APPROVED OMB NO. 0579-0036

セー

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

West Virginia University Room 154-G Health Science Ctr Po Box 9029 Morgantown, WV 26506

NOV 2 2 2004

Telephone: (304) -293-2721

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)

Laboratory Animal Resources Health Sciences Center

FACILITY LOCATIONS (Sites) - See Atached Listing

2) Food Animal Research Facility Animal & Veterinary Sciences

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, 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	D. 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	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquilliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0	drugs.	used.	0	
5. Cats	0	0	41 .	0	14 41
6. Guinea Pigs	0	56	0	0	56
7. Hamsters	0	4	15	0	19
8. Rabbits	0	36	212	12	260
9. Non-human Primates	0	0	4	0	4
10. Sheep	0	0	111	0	111
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Gerbil	0	27	0	0	27
Ferret	0	0	24	0	24
Quail	0	0	164	0	164

(AUG 91)

- 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 rese 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 ap 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 inc brief explanation of the exceptions, as well as the species and number of animals affected.

The attending veterinarian for this research facility has appropriately appropriately according to the second	ropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects	of animal care and use.
	TIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL Chief Executive Officer or Legally Responsible Institutional Official)	
SIGNATURE CT ATT TO THE STATE OF THE STATE O	NAMER TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type of Print)	DATE SIGNED
APHIS FORM 7	n is obsolete.)	



Column E Explanation

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: 54-R-0001
2.	Number 12 of animals used in this study.
3.	Species (common name) Rabbit of animals used in the study.
4.	Explain the procedure producing pain and/or distress.
	Please see attached sheet.
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 Item 6 below)
	Drugs will taint results because it is the inflammation effects that are being studied. Extreme weight changes and excessive dehydration may warrant premature euthanasia. Animals will need to be watered more than usual. We will follow OLAR SOP's for rabbits in pain.
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):
	AgencyCFR

4. Explain the procedure producing pain and/or distress.

(225 animals) Normal animals (2.5-2.7kg)	(225 animals) Inflammed Animals (1.9-2.3kg)
1	↓
sham inoculated	inoculate with E. magna
(within 5-7 days of receiving animals)	(within 5-7 days of receiving animals)
1	1
inject with drug (if applicable,	
approx 50% of normals animals)	incubate 14 days
or sham injected with vehicle	
within 3 days of sham inoculation;	If applicable, once per day on days 12 and 13
once per day for two days	or sham injected with vehicle
prior to euthanasia	
1	↓
sacrificed	treated with drugs (if applicable, approx 50% of
	inflamed animals)
↓ ↓	↓
cells isolated	sacrificed
↓	1
transport studies performed	cells isolated
	↓
	transport studies performed
	and the second of the second of the second of
	ne drug normal animals will be sham injected, normal animals
1	Il be sham injected and inflamed animals will be injected with
drug.	11.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.
What (estimated) percentage of animals will be unus	sable due to unintended mortality of morbidity?
Describe any clinical problems that may arise from	evnerimental manipulation
None	experimental manipulation.
None	
	•

Nonsurgical Experimental (or Teaching) Procedures or Conditions

A. Details of experimental (or teaching) procedures, including frequency of treatments per animal.

1mg of ketamine is administered. Wait 5min.

Place sterile, lubricated intragastric tube into stomach.

Place ~ 20,000 Coccidia (E. Magna) into stomach through tube and wash with several mls of sterile water.

See attached form for additional information Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 54-R-0002

> CUSTOMER NUMBER: 277

W V School Of Ostepathic Medicine

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

Lewisburg, WV 24901 (TYPE OR PRINT)

400 N. Lee Street

NOV 2 2 2004

Telephone: (304) -645-6270

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)

Fredric W. Smith Science Building FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER O	CONTROL OF RESEAR	CH FACILITY (Attach additiona	al sheets if necessarv or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, 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.	D. 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 wh the use of appropriate anesthetic, analgesic, or tranquilitz drugs would have adversely affected the procedures, res or 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 NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	0		20		20
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

- 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 rese 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 ap 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 inc brief explanation of the exceptions, as well as the species and number of animals affected.

	CERTIFICATION BY HEADQUARTERS RES (Chief Executive Officer or Legally Respon		
-	-	TIONAL OFFICIAL (Type or Print)	DATE SIGNED
			11-17-04
	(OCT 88), which is obsolete.)		

See attached form for additional information. Interagency Report Contri

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 54-R-0003

CUSTOMER NUMBER: 278

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Fairmont State College 1201 Locust Avenue Fairmont, WV 26554

DEC 082004

Telephone: (304) -367-4589

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

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)						
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, 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.	D. 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or 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 NUMBER OF ANIMALS (COLUMNS C + D + E)	
4. Dogs			12		12	
5. Cats			8		8	
6. Guinea Pigs		4	_		4	
7. Hamsters		6			6	
8. Rabbits		4			4	
9. Non-human Primates		•				
10. Sheep						
11. Pigs				ب		
12. Other Farm Animals						
13. Other Animals						
		;				
ACCUIDANCE STATEMENTS	2					

- 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 rese teaching, testing, surgery, or experimentation were followed by this research facility.
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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.

N BY HEADQUARTERS RESEARCH FACILITY OFFICIAL Ive Officer or Legally Responsible Institutional Official)	
NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED 12/1/04

:h is obsolete.)

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 21! NOV 3 0 200 See attached form for

additional information

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 54-R-0004

CUSTOMER NUMBER: 279

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Marshall University 400 Hal Greer Boulevard Huntington, WV 25775

Telephone: (304) -696-7373

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

REPORT OF ANIMALS	REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)					
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, 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.	D. 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 whith the use of appropriate anesthetic, analgesic, or tranquilized rugs would have adversely affected 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 NUMBER OF ANIMALS (COLUMNS 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						
Rat	88	298	472		770	
Mouse	348	316	1040		1356	
Gerbil	21		3		3	
ASSURANCE STATEMENTS	5					

- 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 rese teaching, testing, surgery, or experimentation were followed by this research facility.
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-) The attending veterman	lari for this research facility has appropriate authority to ense	are the provision of adequate veterinary dare and to everyone the adequaty of error	copodo el alima care alla sec
		ADQUARTERS RESEARCH FACILITY OFFICIAL er or Legally Responsible Institutional Official)	
SIG		I MAME & TITLE OF CEO OF INSTITUTIONAL OFFICIAL / Tung or Print)	DATE SIGNED
APH	h is obsolete.)	-	1.101/04

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 21!

> UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 54-R-0007 CUSTOMER NUMBER: 1730

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Camc Health Education Research Institute 3200 Maccorkle Ave, Se Charleston, WV 25304

Telephone: (304) -388-9971

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)

CAMC Health Education and Research FACILITY LOCATIONS (Sites) - See Atlached Listing

REPORT OF ANIMALS							
A. Animals Covered By The Animal Welfare Regulations	В.	Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upp which teach research, experiment tests were conducted involving no distress, or pain-relievidrugs.	n ing, , or pain, use of	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, experir research, surgery or tests were conducted involve accompanying pain or distress to the animals and the use of appropriate anesthetic, analgestc, or the drugs would have adversely affected the proceduresults, or interpretation of the teaching, research experiments, surgery, or tests. (An explanation procedures producing pain or distress in these aid the reasons such drugs were not used must be a this report).	of the nimals a
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							
	-						No animals
	-						were used

- 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 resc teaching, testing, surgery, or experimentation were followed by this research facility.
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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.

_	1	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
Î	• -	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
			11-30-04
(AUG 91)	,	8), which is obsolete.)	

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.

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

581 VA Medical Center

Huntington, WV

2. HEADOUARTER'S RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Department of Veterans Affairs 810 Vermont Avenue, N.W. Washington, DC 20420

3. 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 if necessary.)

FACILITY LOCATIONS (Sites)

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A.) B. Number of C Number of Number of animals upon which teaching, Number of animals upon animals being animals upon experiments, research, surgery or tests were which experiments, bred, **Animals Covered** conducted involving accompanying pain or distress which leaching, teaching, research. By The Animal conditioned, or to the animals and for which the use of appropriate research, surgery, or tests were TOTAL NO held for use in Welfare Regulations experiments, or anesthetic, analgesic, or tranquilizing drugs would OF ANIMALS conducted involving teaching, testing, have adversely affected the procedures, results, or tests were accompanying pain or experiments, interpretation of the teaching, research, conducted distress to the animals research, or involving no experiments, surgery, or tests. (An explanation of (Cols. C + D + E) and for which appropriate surgery but not the procedures producing pain or distress in these pain, distress, or anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were purposes. relieving drugs must be attached to this report). used Dogs Cats Guinea Pigs Hamsters Rabbits Non-human Primates 10. Sheep 11. Pigs 12. Other Farm Animals 13. Other Animals Rats 18 91 157 248

- 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.
- 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 INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		10-26-09

ASSURANCE STATEMENTS