OMB APPROVED 0579-0036 Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.36). Failure to report according to the regulations can result in an order to cease and desist.		
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	4. Species (comm	non name) of animals used in
4 (2 in Cat. E)	the study. Guin	nea Pigs
5. Explain theprocedure producing pain and	distress.	
Guinea Pigs may be inoculated with live leptospires.		
6. Provide the scientific justification for not	providing the approp	oriate anesthetics, analgesics
or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.		
The observation of clinical signs and their stage of advancement will be used to indicate euthanasia. Alleviating or relieving these signs will interfere with assessment. No alternatives to the painful procedure were identified which will allow evaluation of leptospiral virulence.		
7. 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): None		
Agency		CFR

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Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

	Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §	(2.36). Failure to report according ase and desist.	g to the regulations can result in an order to	
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address	
42-G-0001	P.O. Box 70 Ames, IA 50010		
3. Number of animals used in the study.		non name) of animals used in	
45 (14 in Cat. E)	the study.	ters	
Hamsters may be inoculated with live leptospires.			
6. Provide the scientific justification for not or tranquilizing drugs during procedures what distress greater than momentary or slight. The observation of clinical signs and their stage of a or relieving these signs will interfere with assessment which will allow evaluation of leptospiral virulence.	here the animal expended when the development will be used not. No alternatives to the part of the par	ienced accompanying pain or to indicate euthanasia. Alleviating painful procedure were identified	
or tranquilizing drugs during procedures we distress greater than momentary or slight. The observation of clinical signs and their stage of a or relieving these signs will interfere with assessment	this procedure? Cite t	to indicate euthanasia. Alleviating pain full procedure were identified the agency, the Code of	

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Fiscal year: 2022

Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 ceas	36). Failure to report accordings	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Faci	lity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	4. Species (comn	non name) of animals used in
117 (6 in Cat. E)	the study. Shee	p
5. Explain the procedure producing pain and	l distress.	
Inoculation with transmissible spongiform encephalopathy (TSE).		
6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.		
Drugs will be used to alleviate pain and distress that occurs during procedures or due to intercurrent disease. Animals are requested in category E due to the potential that they will exhibit clinical signs as a result of being inoculated with a prion disease agent. Currently, there are no known treatments for prion disease.		
7. 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):		
None		
Agency		CFR

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Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 cea	2.36). Failure to report accordin se and desist.	g to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.		non name) of animals used in
64 (46 in Cat. E)	the study.	
5. Explain the procedure producing pain and	d distress.	
Intranasal inoculation of pigs with porcine reproductive and respiratory syndrome virus (PRRSV).		
6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight. Clinical signs are a measure of the degree of vaccine protection from clinical disease in the challenged pigs and the use of drugs could mask the expression of clinical signs		
7. 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): None		
Agency		CFR

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Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

ANIMAL AND PLANT REALTH INSPECTION SERVICE			
Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)			
	This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.36). Failure to report according to the regulations can result in an order to cease and desist.		
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address	
42-G-0001	P.O. Box 70 Ames, IA 50010		
3. Number of animals used in the study.	•	non name) of animals used in	
90 (89 in Cat. E)	the study.		
5. Explain the procedure producing pain and	distress.		
Inoculation with Porcine Reproductive and Respirat disease complex (PRDC) pathogen or their deletion	• •	a single porcine respiratory	
6. Provide the scientific justification for not p or tranquilizing drugs during procedures who distress greater than momentary or slight.			
The purpose of the proposed work is to evaluate the	,		
pathogens as well as host response following infection. Drugs such as antibiotics that are typically used to treat these infections will clear the infection and alter the course of disease. Anti-inflammatory and pain-relieving drugs can mask clinical signs which we are monitoring and recording as well as alter the host response to infection.			
7. What, if any, Federal regulations require the Federal Regulations (CFR) title number, and 113, 102):			
None			
Agency		CFR	

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Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 ceas	.36). Failure to report accordir	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.		non name) of animals used in
88 (80 in Cat. E)	the study.	
5. Explain the procedure producing pain and	l distress.	
Intranasal or intratracheal inoculation with Highly I Avian Influenza (HPAI).	Pathogenic	
6. Provide the scientific justification for not por tranquilizing drugs during procedures who distress greater than momentary or slight.		
No clinical signs are anticipated following infection with HPAI. Since the use of drugs would mask the clinical signs of influenza illness, evaluation of clinical signs without the use of drugs is required to meet the project objectives of IAV pathogenesis, transmission, and host response in swine.		
7. 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):		
None		
Agency		CFR

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Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

ANIMAL AND FLANT HE	ALITIMOPLOTION	SERVICE
-	of Research Facil	lity
	Explanation	
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.3 cease	6). Failure to report accordin	g to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70	
	Ames, IA 50010	
3. Number of animals used in the study.		non name) of animals used in
365(275 in Cat. E)	the study.	
5. Explain the procedure producing pain and o	⊥ distress.	
Inoculation with influenza A viruses.		
6. Provide the scientific justification for not pr	oviding the approp	riate anesthetics, analgesics.
6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or		
distress greater than momentary or slight.		
Only mild clinical signs are anticipated following infe		C
would mask the clinical signs of influenza illness, evaluation of clinical signs without the use of drugs is required to meet the project objectives of IAV pathogenesis, transmission, and host response in swine.		
required to infect the project objectives of interpolation, transmission, and note responde in swine.		
7. 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):		
None		
Agency		CFR

OMB APPROVED
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Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

ANIMAL AND PLANT HEALTH INSPECTION SERVICE			
Annual Report of Research Facility			
	Explanation (COR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.36 cease	6). Failure to report accordin	g to the regulations can result in an order to	
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address	
42-G-0001	P.O. Box 70		
	Ames, IA 50010		
3. Number of animals used in the study.	4. Species (comm	non name) of animals used in	
6 (6 in Cat. E)	the study.		
0 (0 III Cat. L)	Pigs		
5. Explain the procedure producing pain and o	listress.		
Inoculation of tissue homogenate prepared from field	•	ell culture preparation that	
contains an infectious filterable agent isolated from sv	vine.		
6. Provide the scientific justification for not pr			
or tranquilizing drugs during procedures when distress greater than momentary or slight.	re the animai exper	ienced accompanying pain or	
If efficacious pain-relieving drugs or other ameliorative treatments were used, they would mask clinical signs			
which would obscure the evaluation of reproducing the			
require the evaluation of infectivity of the potential unl	-	ogenesis of the disease which	
requires the disease to progress naturally, thus unaffected by drugs.			
7. 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):			
None			
Agency		CFR	

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Fiscal year: 2022

Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)			
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 cea	2.36). Failure to report accordinase and desist.	g to the regulations can result in an order to	
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address	
42-G-0001	P.O. Box 70 Ames, IA 50010		
3. Number of animals used in the study.	·	non name) of animals used in	
60 (46 in Cat. E)	the study. Pigs		
5. Explain the procedure producing pain and	d distress.		
Intranasal or oral inoculation of pigs with Senecavir	rus A (SVA).		
6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.			
To evaluate the potential efficacy of a vaccine, the natural expression of the disease is necessary and drugs beneficial for reducing pain/distress may alter the pig's immune response.			
7. 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):			
None			
Agency		CFR	

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Annual Report of Research Facility Column E Explanation (TYPE OR PRINT)			
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 ceas	36). Failure to report accordir	ng to the regulations can result in an order to	
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address	
42-G-0001	P.O. Box 70 Ames, IA 50010		
3. Number of animals used in the study.	4. Species (comm	non name) of animals used in	
20 (10 in Cat. E)	Pigs		
5. Explain the procedure producing pain and	l distress.		
Oronasal inoculation of pigs with Salmonella enterio	ca serotype Typhimuriui	n.	
6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.			
The validity of the experimental results requires colonization by S. Typhimurium without the use of therapeutic drugs. Antimicrobials may decrease the colonization level of Salmonella and cause changes to the swine gut microbiome, which will alter the interactions and transfer of genes between S. Typhimurium and the commensal gastrointestinal microbiota.			
7. 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):			
None			
Agency		CFR	

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Column	t of Research Facility E Explanation
	§2.36). Failure to report according to the regulations can result in an order to ease and desist.
1. REGISTRATION NUMBER	2. Research Facility Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010
3. Number of animals used in the study.	4. Species (common name) of animals used in
40 (27 in Cat. E)	the study.
5. Explain the procedure producing pain an	d distress.
dairy cattle, undergoing stressors of gestation, particular to clinical disease. 6. Provide the scientific justification for not or tranquilizing drugs during procedures with the scientific procedures with the scient	es of disease. It is critical that animals are housed as typical arturition, and lactation in order to progress from subclinical arturition providing the appropriate anesthetics, analgesics, here the animal experienced accompanying pain or
e , e	of disease progression and alter the interpretation of the clinical seems of the clinical
•	this procedure? Cite the agency, the Code of d the specific section number (e.g., APHIS, 9 CFR
None	
Agency	CFR

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ANIMAL AND PLANT HEALTH INSPECTION SERVICE			
Annual Report of Research Facility			
	E Explanation E OR PRINT)		
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.3 cease	36). Failure to report accordir	ng to the regulations can result in an order to	
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address	
42-G-0001	P.O. Box 70		
	Ames, IA 50010		
3. Number of animals used in the study.	4. Species (comn the study.	non name) of animals used in	
4 (4 in Cat. E)	Cattle		
5. Explain the procedure producing pain and	distress.		
Cattle will be infected with a mastitis-causing pathogen (e.g. E. coli, S. uberis, or S. aureus) in one quarter of the mammary gland.			
6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.			
Treatment (antibiotics) cannot be given because this will not allow the disease to progress in an experiment. Use of pain drugs affect the immune system and should not be used unless animals have a rectal temperature of greater than 106F. Those animals will be immediately treated for fever as recommended by veterinarian or delegate. Animals that have a rectal temperature of greater than 104.5F for two consecutive observations will be treated for fever as recommended by veterinarian.			
7. 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): None			
Tione			
Agency		CFR	

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Fiscal year: 2022

Column	t of Research Faci E Explanation	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. § cea	2.36). Failure to report accordings and desist.	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Faci	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	- `	non name) of animals used in
36 (4 Cat. E)	the study.	e
5. Explain the procedure producing pain and	d distress.	
6. Provide the scientific justification for not	providing the approp	riate anesthetics analgesics
or tranquilizing drugs during procedures whe distress greater than momentary or slight.		
Drugs will be given to alleviate pain/distress for ar treatments for clinical neurologic signs associated neurologic signs have been requested in category	with the development of	
7. What, if any, Federal regulations require to Federal Regulations (CFR) title number, and 113, 102): None	•	O J ,
Agency		CFR

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Column	of Research Faci E Explanation	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 ceas	2.36). Failure to report accordings	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.		non name) of animals used in
14 (14 in Cat. E)	the study. Cattle	
5. Explain the procedure producing pain and	l distress.	
Cattle will be orally and intranasally vaccinated with	,	
6. Provide the scientific justification for not por tranquilizing drugs during procedures who distress greater than momentary or slight.		
Typical treatment would include anti-inflammatorie vaccine. Therefore pain-relieving drugs cannot be ad		se drugs could affect efficacy of
7. What, if any, Federal regulations require the Federal Regulations (CFR) title number, and 113, 102): None	•	O J
Agency		CFR

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Fiscal year: 2022

Column	of Research Faci E Explanation PE OR PRINT)	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 ceas	.36). Failure to report accordir	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	4. Species (comn	non name) of animals used in
28 (28 Cat. E)	the study.	
5. Explain the procedure producing pain and	distress.	
Cattle will be challenged with Mycobacterium box	vis via aerosol mask.	
6. Provide the scientific justification for not por tranquilizing drugs during procedures who distress greater than momentary or slight.		
The only measure of vaccine-induced protection is interventions which alter the immune response dire defined variables to the study.	-	•
7. What, if any, Federal regulations require the Federal Regulations (CFR) title number, and 113, 102):	-	<u> </u>
Agency		CFR

OMB APPROVED
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Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

ANIMAL AND I LANT III	LALITIMOI LOTION	CERTICE
Column	of Research Facil E Explanation	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 ceas	36). Failure to report accordir	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	•	non name) of animals used in
10 (6 in Cat. E)	the study.	
5. Explain the procedure producing pain and	l distress.	
Intranasal inoculation with Senecavirus A.		
6. Provide the scientific justification for not por tranquilizing drugs during procedures who distress greater than momentary or slight.		
Typical treatment would include anti-inflammatoric patterns of the pathogen as well as immune respons		ese drugs could augment shedding
Altered shedding patterns and immune responses me progression and pathogenesis which is the purpose		
progression and pathogenesis which is the purpose	ior tins study and thereis	ore carrior de auministereu.
7. What, if any, Federal regulations require the Federal Regulations (CFR) title number, and 113, 102):	-	
None		
Agency		CFR

OMB APPROVED 0579-0036 Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

ANIIVIAL AND PLANT TIL	ALITINGFLOTION	SERVICE
Column E	of Research Facil E Explanation	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.3	E OR PRINT)	ng to the regulations can result in an order to
cease	e and desist.	g to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70	
	Ames, IA 50010	
3. Number of animals used in the study.	4. Species (comm	non name) of animals used in
48 (38 in Cat. E)	the study.	•
	ren	tet
5. Explain the procedure producing pain and	distress.	
Intranasal inoculation of Influenza A virus.		
6. Provide the scientific justification for not p or tranquilizing drugs during procedures who distress greater than momentary or slight.		
We anticipate only mild clinical signs following inf clinical signs of influenza illness, evaluation of clin project objectives of IAV pathogenesis, transmission	ical signs without the us	se of drugs is required to meet the
7. What, if any, Federal regulations require th Federal Regulations (CFR) title number, and t 113, 102):		
None		
Agency		CFR

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Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

Column	of Research Faci E Explanation	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 cea	2.36). Failure to report accordings and desist.	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.		non name) of animals used in
30 (18 in Cat. E)	the study. Mink	
5. Explain the procedure producing pain and	l distress.	
Intranasal inoculation with SARS-CoV-2.		
6. Provide the scientific justification for not por tranquilizing drugs during procedures who distress greater than momentary or slight.		
The proposed studies require the evaluation of the p progress naturally, thus unaffected by drugs.	oathogenesis of the diseas	se which requires the disease to
7. What, if any, Federal regulations require the Federal Regulations (CFR) title number, and 113, 102): None	•	5 5 '
A		OFD
Agency		CFR

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0579-0036

Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

	E Explanation TYPE OR PRINT)
	2.36). Failure to report according to the regulations can result in an ordase and desist.
1. REGISTRATION NUMBER	2. Research Facility Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010
3. Number of animals used in the study.	4. Species (common name) of animals used
65 (65 in Cat. E)	the study. Mouse
5. Explain the procedure producing pain an	d distress.
Inoculation with Histophilus somni.	
•	viding the appropriate anesthetics, analgesics, or e animal experienced accompanying pain or distress gr
tranquilizing drugs during procedures where the than momentary or slight. Typical treatment to control H. somni infection of Baytril. However, treatment of mice with these and	
tranquilizing drugs during procedures where the than momentary or slight. Typical treatment to control H. somni infection or Baytril. However, treatment of mice with these an antibiotics cannot be administered but, mice will septicemia. 7. What, if any, Federal regulations require to Federal Regulations (CFR) title number, and	e animal experienced accompanying pain or distress gradual would include antibiotics such as Excenel, Nuflor, and antibiotics will affect the disease pathogenesis. Therefore
tranquilizing drugs during procedures where the than momentary or slight. Typical treatment to control H. somni infection of Baytril. However, treatment of mice with these an antibiotics cannot be administered but, mice will septicemia. 7. What, if any, Federal regulations require to the same of the service of the ser	would include antibiotics such as Excenel, Nuflor, and ntibiotics will affect the disease pathogenesis. Therefore be euthanized immediately when they show clinical sign this procedure? Cite the agency, the Code of

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Fiscal year: 2022

Column	of Research Facil	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2 cea	2.36). Failure to report accordin	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.		non name) of animals used in
2380 (1311 in Cat. E)	the study. Mouse	
5. Explain the procedure producing pain and	d distress.	
Inoculation with transmissible spongiform encepha		winto apporthating application
6. Provide the scientific justification for not or tranquilizing drugs during procedures when distress greater than momentary or slight.		
Drugs can be used to alleviate pain and distress asso expected to develop clinical signs of prion disease fo		
7. What, if any, Federal regulations require to Federal Regulations (CFR) title number, and 113, 102): None	-	O O •
Agency		CFR

OMB APPROVED 0579-0036 Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2021

	t of Research Faci E Explanation YPE OR PRINT)	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §	2.36). Failure to report accordinase and desist.	g to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	- `	non name) of animals used in
379 (204 in Cat. E)	the study.	ens
	1 11 41	
6. Provide the scientific justification for not or tranquilizing drugs during procedures who distress greater than momentary or slight.		
or tranquilizing drugs during procedures when	here the animal expent t will be difficult since bir inistration would negative	ds cannot be easily isolated or ely impact the results of the
or tranquilizing drugs during procedures what distress greater than momentary or slight. Birds will be group housed, so individual treatment tracked. If an infection is suspected, antibiotic admexperiment. For both reasons, birds will be euthanity prodded. 7. What, if any, Federal regulations require to the suspection of the suspect	t will be difficult since bir inistration would negative zed if they are in distress.	ds cannot be easily isolated or ely impact the results of the or fail rise and move when
or tranquilizing drugs during procedures whe distress greater than momentary or slight. Birds will be group housed, so individual treatment tracked. If an infection is suspected, antibiotic admexperiment. For both reasons, birds will be euthanity prodded.	t will be difficult since bir inistration would negative zed if they are in distress.	ds cannot be easily isolated or ely impact the results of the or fail rise and move when

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Fiscal year: 2022

Column I	of Research Facil E Explanation PE OR PRINT)	lity
This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2. ceas	36). Failure to report according and desist.	ng to the regulations can result in an order to
1. REGISTRATION NUMBER	2. Research Facil	ity Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010	
3. Number of animals used in the study.	4. Species (comn	non name) of animals used in
385 (285 in Cat. E)	the study.	vs
Inoculation with Salmonella.		
6. Provide the scientific justification for not p or tranquilizing drugs during procedures who distress greater than momentary or slight.		
The validity of the experimental results requires that colonize without the use of therapeutic drugs.		
7. What, if any, Federal regulations require the Federal Regulations (CFR) title number, and 113, 102): None		
Agency		CFR

OMB APPROVED
0579-0036

Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2021

	§2.36). Failure to report according to the regulations can result in an order to ease and desist.
1. REGISTRATION NUMBER	2. Research Facility Headquarters address
42-G-0001	P.O. Box 70 Ames, IA 50010
3. Number of animals used in the study.	4. Species (common name) of animals used in
24 (24 in Cat. E)	the study. White-tailed Deer
5. Explain the procedure producing pain ar	nd distress.
Inoculation with SARS-CoV-2.	
•	t providing the appropriate anesthetics, analgesics, there the animal experienced accompanying pain or
or tranquilizing drugs during procedures w distress greater than momentary or slight.	where the animal experienced accompanying pain of the disease, which requires the disease to progress
or tranquilizing drugs during procedures we distress greater than momentary or slight. The proposed studies aim to evaluate the pathogen	where the animal experienced accompanying pain of the disease, which requires the disease to progress
or tranquilizing drugs during procedures we distress greater than momentary or slight. The proposed studies aim to evaluate the pathogen	where the animal experienced accompanying pain of the disease, which requires the disease to progress
or tranquilizing drugs during procedures we distress greater than momentary or slight. The proposed studies aim to evaluate the pathogen naturally, thus unaffected by therapeutic intervent. 7. What, if any, Federal regulations require	where the animal experienced accompanying pain of the disease, which requires the disease to progress
or tranquilizing drugs during procedures we distress greater than momentary or slight. The proposed studies aim to evaluate the pathoger naturally, thus unaffected by therapeutic intervent. 7. What, if any, Federal regulations require Federal Regulations (CFR) title number, and	this procedure? Cite the agency, the Code of