Column E Explanation

This form is intended as an aid to complete the Column E explanation. It is not an official form and its use is voluntary. Annual Reports and explanations should NOT include PI information such as names (principle investigators and research staff), addresses, protocols, meeting notes (either in part of in full), the animals room numbers, grant information, veterinary care programs, and the like. A Column E explanation must be written so as to be understood by lay person as well as scientists.

1.	RegistrationN	lumber: <u>63-R-</u>	27			
2.	Number	180	of animals	of animals used in this study.		
3.	Species (comr	mon name) _	Hamster	of animals used in this study.		
4.	Explain the procedure producing pain and/or distress. Explanations should include a brief description of the procedure, but also explain what the animal's experience, examples of which may include, but are not limited to: Neurological signs, seizures, tremors, paralysis, lethargy, inappetence, respiratory signs, GI distress, vomiting, and diarrhea.					
com meas Som for to	tion animals are pounds or vaccin surements will b e hamsters are u esting vaccines a	monitored for nes via the intra e performed da ised in LD50 and and therapeutic	signs of disease daily. venous, intraperitone aily and blood is colled d mean tolerated dose s.	as a model of human COVID-19 infection. After Hamsters will be treated with test therapeutic al, oral or subcutaneous route. Body weight ted at different time points throughout the studies. e studies, to determine optimal infection and dosing		
scori	ng system has be	een created for		e, weight loss, lethargy, and difficulty moving. A de the following euthanasia criteria: inappetence, atly closed eyes.		
5.	Attach or include	de with the rea	son(s) for why anest	hetics, analgesics and tranquillizers could not be		
	used. (For federally mandated testing, see Item 6 below).					
for a prov	ll in vivo blood c	ollections and or or than the trea	oral gavage. Analgesio	ction and at the time of euthanasia. Isoflurane is used is are not used in this study due to concerns that if we ing tested, we will not be able to evaluate the efficacy		
6.		[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	40.00.00 트리크 (1.60~1) 20 시간 (1.60~1) 1.60 (1.60~1)	edure? Cite the agency, the code of Federal ction number (e.g. APHIS, 9 CFR 113.102):		
	Agency		CFR			

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1.	Registration Number: 63-R-0107	27			
2.	Number 164 of animals used in this study.				
3.	Species (common name) Peromyscus leucopu	sof animals used in this study.			
4.	Explain the procedure producing pain and/or distress. Explanations should include a brief description of the procedure, but also explain what the animal's experience, examples of which may include, but are not limited to: Neurological signs, seizures, tremors, paralysis, lethargy, inappetance, respiratory signs, GI distress, vomiting, and diarrhea.				
antil was at D Isofl	nale Peromyscus were vaccinated with OspA coated peribody Peromyscus were bred with unvaccinated males of done before vaccination and after weaning. Pups were 26 and the mothers are to be challenged at the end of lurane anesthesia is used before challenge and for euth hanized 4 weeks after the first day of tick challenge.	to produce pups. Blood collection from the mothers e challenged with infected ticks the day after weaning f the experiment after producing all the needed pups.			
dem	er infection animals are monitored for signs of disease nonstrate many of the clinical signs commonly seen wi ma may be seen, but not to a degree that would affec	th Lyme disease infection in animals. Some mild joint			
5.	Attach or include with the reason(s) for why anest used. (For federally mandated testing, see Item 6	The control of the co			
conc infect antil	esthetic (isoflurane) is used before tick challenge and b lurane induces stress and hypothemia that often leads cerns that steroids or non-steroidal anti-inflammatory action. Opioid administration is also associated with im abody and cellular responses, natural killer cell activity, phagocytic activity.	efore euthanasia. Bleeding Peromyscus under to death. Analgesics are not used in this study due to agents may alter the progression of disease and munomodulatory effects, including inhibition of			
6.	What, if any, federal regulation require this proceed Regulations (CFR) title number and the specific set				
	AgencyCFR				