This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Name, 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 Num	Der: 33-K-	0005						
2.	Number	79		_of animals used	in this study				
3.	Species (common	name)	_Pigs	_of animals used	in this study				
4.	Explain the procedure producing pain and/or distress.								
Piglets were infected <u>in utero</u> with the common viral swine pathogen: Porcine Reproductive Respiratory Syndrome Virus. These piglets were all born infected with the virus as confirmed by virus isolation upon their serum. Their dams were infected by spraying a virus solution into their noses, the piglets were naturally infected during their mother's viremia.									
5.	Provide scientific methods or mean with test results (s used to d	letermine that pa	ain and/or distres	not be relieved. State s relief would interfere 6 below)				
This study was performed to determine the effects of <u>in utero</u> infection by PRRSV on piglets immune cell populations and their function. Administration of analgesics would directly alter potentially important immune responses in the study pigs via anti-prostaglandin mechanisms, etc. Any piglets which were off feed for greater than 12 hours were euthanized. They were given anitbiotics as clinically needed to combat secondary bacterial infections.									
6.	What, if any, Federal regulations require this procedure? Cite the agency, the of Federal Regulations (CFR) title number and the specific section number (APHIS, 9 CFR 113.102):								
	Agency	N/A		CFR	N/A				

Optional Column E Explanation Form

55 R 0005

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1.	Registration Number	r: 55-R-0005									
2.	Number	96	of animal	ls used in this study							
3.	Species (common na	ame)Pigs_	of animals used	in this study							
4.	Explain the procedure	plain the procedure producing pain and/or distress.									
Pi	Pigs were infected at 6 days of age with 10 ⁷ rotavirus particles by oral gavage.										
				•							
5.	Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results (For Federally mandated testing, see question 6 below)										
tre tre wi	eat, eliminate or allevi eatment for neonatal d th gut motility and en nydration solution and	ate diarrheal str iarrhea which v terocyte metabe l other nutrition	ress. We do not use we are attempting to olism which can occur all agents will reduc	glets; the main objective of this analgesia because this is not ty mimic, and we do not wish to cur with certain drugs. Hopeful the the length of the stress periodalting in minimal mortality.	pical risk interfering lly, the oral						
6.	What, if any, Feder of Federal Regulati APHIS, 9 CFR 113.	ons (CFR) titl	equire this procedu e number and the	re? Cite the agency, the Code specific section number (e.g.	;						
	AgencyN/A_		CFR	N/A							