

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Intervet Inc.
USDA Vet Biologics Establishment Number	165A
Product Code	1905.23
True Name	Rabies Vaccine, Killed Virus
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	EquiRab - Merck Animal Health Prestige EquiRab - Merck Animal Health
Date of Compilation Summary	April 10, 2018

Disclaimer: Do not use the following studies to compare one product to another. Slight differences in study design and execution can render the comparisons meaningless.

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Study Type	Efficacy					
Pertaining to	Rabies Virus (RV)					
Study Purpose	To demonstrate efficacy against Rabies virus 14 months after					
	vaccination.					
Product Administration	One dose adm	inistered intramus	scularly (IM)			
Study Animals	26 vaccinates	and 11 controls he	orses were used a	t 4 months of age.		
Challenge Description	11 vaccinates and 5 control horse were challenged with Rabies					
		hs post vaccinatio				
Interval observed after	Horses were observed daily for 90 days post-challenge.					
challenge						
Results	Efficacy was o	demonstrated acco	ording to 9CFR 11	13.209(b).		
				Number of		
				Deaths		
		Number of	Number	attributed to		
	Group	Animals	Challenged	RV by DFA		
	Vaccinates	26	11	0		
	Controls	11	5	4		
	DFA is direct fluorescent antibody titer					
	Raw data shown on attached page.					
USDA Approval Date	March 1, 2006					

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Horse	Treatment	Sex	Status	Horse	Treatment	Sex	Status
ID#	Group			ID#	Group		
273	Vaccinate	M	Survived	278	Control	F	Survived
285	Vaccinate	F	Survived	309	Control	M	Euthanized**
286	Vaccinate	F	Survived	312	Control	M	Dead
288	Vaccinate	F	Survived	313	Control	F	Dead
289	Vaccinate	F	Dead*	315	Control	M	Euthanized**
290	Vaccinate	M	Survived				
292	Vaccinate	M	Survived				
293	Vaccinate	F	Survived	ed			
295	Vaccinate	M	Survived				
300	Vaccinate	M	Survived				
305	Vaccinate	F	Survived				
Protection 100% (10/10)			Rabies incidence 80% (4/5)				

^{*} The animal died on day 61 post-challenge. Cause of death was determined to be not related to rabies. The absence of rabies virus was confirmed by direct fluorescent antibody titer (DFA).

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^{**} Euthanized following the neurological signs suggestive of rabies.

Study Type	Safety	Safety				
Pertaining to	ALL					
Study Purpose	To demonstrate safety under field conditions					
Product Administration	One dose administered intramuscularly					
Study Animals	992 horses	s from 3 states. 41	13 horses were 4	4 months of age or		
	younger a	t time of the intial	vaccination.			
Challenge Description	Not applicable					
Interval observed after	Horses were observed immediately following vaccination and then					
challenge	daily for 3	days post-vaccin	ation			
Results				_		
	Score	# of Reactions	% of Total			
	0	969	97.68			
	1	15	1.51			
	2	8	0.81			
	3	0	0			
	4	0	0			
	5	0	0			
	Score Overview: 0 – No reaction 1 – Localized swelling at or near the injection site, which is not visible; detectable only by palpation. Not clinically significant. 2 – Localized visible swelling at or near the injection site. Not painful. 3 – Localized visible swelling at or near the injection site. Raised, circumscribed and painful. 4 – Visible diffused swelling involving a substantial area around the injection site. Very painful and hot. Horse is stiff and/or reluctant to move. 5 – Generalized or systemic reaction, including anaphylaxis or elevated temperature. All swellings resolved by 4 days post-vaccination.					
USDA Approval Date	October 23, 2007					

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