

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Intervet Inc.
USDA Vet Biologics Establishment Number	165A
Product Code	4865.01
True Name	Encephalomyelitis Vaccine, Eastern & Western, Killed Virus, Tetanus Toxoid
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Encevac-T - Merck Animal Health
Date of Compilation Summary	December 19, 2017

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.

Study Type	Efficacy		
Pertaining to	Clostridum tetani		
Study Purpose	Demonstrate efficacy against <i>C. tetani</i>		
Product Administration	One dose administered subcutaneously.		
Study Animals	Ten guinea pigs (5 females and 5 males, 450-550g)		
Challenge Description	Not applicable		
Interval observed after	Six weeks after vaccination, guinea pigs were bled for serological		
challenge	testing.		
Results	Efficacy of <i>C. tetani</i> was demonstrated in laboratory animals according to 9CFR 113.114(c). Satisfactory result is an antitoxin titer of at least 2.0 A.U. per mL for the serum pool. Pooled Guinea Pig Antitoxin titer (A.U./mL) 2.082		
USDA Approval Date	June 15, 2010		

Study Type	Efficacy				
Pertaining to	Eastern Equine Encephalomyelitis (EEE)				
Study Purpose	Demonstrate effi	cacy against EEE			
Product Administration	Two doses admir	nistered intramuscul	larly 3 weeks ap	oart.	
Study Animals	Twelve guinea pigs, 10 vaccinates and 2 controls, each 300-500g				
Challenge Description	Not applicable				
Interval observed after	14 days post 2nd vaccination, guinea pigs were bled for				
challenge	serological testing.				
Results	Efficacy of EEE was demonstrated in laboratory animals according to 9CFR 113.207(b). Satisfactory test result is a Virus Neutralization Titer of \geq 1:40 in at least 9 out of 10 vaccinates (2 nd stage - at least 17 out of 20 vaccinates).				
	Treatment Test				
	group				
	Vaccinates	$17/20 \ge 1:40$	Satisfactory		
	Controls	2/2 <1:4	Satistacióny		
USDA Approval Date	June 15, 2010				

Study Type	Efficacy					
Pertaining to	Western Equine	Encephalomyelitis	(WEE)			
Study Purpose	Demonstrate effi	cacy against WEE				
Product Administration	Two doses admir	nistered intramuscu	ularly 3 weeks ap	oart.		
Study Animals	Twelve guinea pi	igs, 10 vaccinates a	and 2 controls, ea	ach 300-500g		
Challenge Description	Not applicable					
Interval observed after	14 days post 2nd vaccination, guinea pigs were bled					
challenge	for serological testing.					
Results	Efficacy of WEE was demonstrated in laboratory animals according to 9CFR 113.207(b). Satisfactory test result is a Virus Neutralization Titer of \geq 1:40 in at least 9 of the vaccinates.					
	TreatmentTestgroupResultsDisposition					
	Vaccinates	$9/10 \ge 1:40$		-		
	Controls	2/2 <1:4	Satisfactory			
				1		
USDA Approval Date	June 15, 2010					

Study Type	Safety				
Pertaining to	ALL				
Study Purpose	To demon	strate safety u	nder field cond	litions	
Product Administration	298 horses received 2 doses intramuscularly 3 to 4 weeks apart for				
	primary immunization. 254 horses received 1 dose				
	intramuscularly.				
Study Animals	552 horses of various ages, breeds and sex in 5 different states.				
	177 horses were 4-months of age or younger at the time of the				
	initial vaccination.				
Challenge Description	Not applic	cable			
Interval observed after			nmediately foll	lowing vaccination and then	
challenge	daily for 3 days post-vaccination				
Results	Doses are reported due to difference in vaccination schedule.				
	Score	# of Cases	% of Total		
	0	820	96.47		
	1	25	2.94		
	2	3	0.35		
	3	2	0.24		
	4	0	0		
	5 0 0				
	Total # of Doses administered = 850				
	Score Overview:				
	0 – No reaction				
	1 – Localized swelling at or near the injection site, which is not				
				n. 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, 				
		scribed and pa		a substantial area around	
				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.				
USDA Approval Date	February 8, 2006				
USDA Approval Date	rebruary	0,2000			