

## **Summary of Studies Supporting USDA Product Licensure**

Establishment Name	Intervet Inc.
USDA Vet Biologics Establishment Number	165A
Product Code	8601.01
True Name	Tetanus Toxoid
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Super-Tet with Havlogen - Merck Animal Health Super-Tet with Havlogen - Merck Sharpe and Dohme (MSD)
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.

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Study Type	Efficacy				
Pertaining to	Clostridum tetani				
Study Purpose	Demonstrate efficacy against <i>C. tetani</i>				
<b>Product Administration</b>	One dose administered subcutaneously.				
Study Animals	Ten guinea pigs (5 females and 5 males, 450-550g)				
<b>Challenge Description</b>	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				
<b>USDA Approval Date</b>	June 15, 2010				

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Study Type	Safety						
Pertaining to	ALL	ALL					
Study Purpose	To demonstrate safety under field conditions						
Product Administration	298 horse	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 applicable						
Interval observed after	Horses were observed immediately following vaccination and then						
challenge		daily for 3 days post-vaccination					
Results	Doses are	Doses are reported due to difference in vaccination schedule.					
	Coore	# of Cases	% of Total	1			
	Score		96.47				
	0	820					
	$\frac{1}{2}$	25 3	2.94 0.35				
	3	2	0.33				
	4	0	0.24				
	5	0	0				
	Total # of Doses administered = 850						
	Total ii of Doses administred – 630						
	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.						
USDA Approval Date	February 8, 2006						

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