

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Diamond Animal Health, Inc.		
USDA Vet Biologics Establishment Number	213		
Product Code	1187.20		
True Name	Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza 3- Respiratory Syncytial Virus Vaccine, Modified Live & Killed Virus		
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Diamond Animal Health, Inc. Elanco Animal Health Master Guard 5 - Elanco Animal Health Master Guard 5 - No distributor specified		
Date of Compilation Summary	July 18, 2024		

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	Bovine Virus Diarrhea (BVD) Type 1		
Study Purpose	To demonstrate efficacy of against BVD virus Type 1		
Product Administration	Two doses by subcutaneous or intramuscular injection to healthy,		
	susceptible cattle		
Study Animals	Bovine		
Challenge Description	BVD Type 1, NY-1 Strain (CVB-L lot 97-12)		
Interval observed after			
challenge			
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.		
USDA Approval Date	January 27, 1999		

Study Type	Efficacy		
Pertaining to	Bovine Virus Diarrhea (BVD) Type 2		
Study Purpose	To demonstrate efficacy of product for BVD virus Type 2		
Product Administration	Two doses by subcutaneous or intramuscular injection		
Study Animals	Bovine		
Challenge Description	BVD virus Type 2, 890 Strain (lot 1444-57, from CVB-L lot 91-3)		
Interval observed after	14 days		
challenge			
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.		
USDA Approval Date	January 27, 1999		

Study Type	Efficacy		
Pertaining to	Infectious Bovine Rhinotracheitis (IBR)		
Study Purpose	To demonstrate efficacy of product for IBR virus		
Product Administration	Two doses by intramuscular or subcutaneous injection		
Study Animals	Bovine		
Challenge Description	Cooper Challenge Strain IBR Virus Lot 50980		
Interval observed after			
challenge			
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.		
USDA Approval Date	July 15, 1986		

Study Type	Efficacy		
Pertaining to	Infectious Parainfluenza ₃ (PI ₃) Virus		
Study Purpose	To demonstrate effectiveness against disease caused by infectious		
	Parainfluenza ₃ Virus		
Product Administration	1 dose by subcutaneous or intramuscular injection to calves 6-8		
	months of age.		
Study Animals	Bovine		
Challenge Description			
Interval observed after			
challenge			
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.		
USDA Approval Date	May 15, 1998		

Study Type	Efficacy		
Study Type			
Pertaining to	Bovine Respiratory Syncytial Virus (BRSV)		
Study Purpose	To demonstrate effectiveness against disease caused by infectious		
	Bovine Respiratory Syncytial Virus		
Product Administration	1 dose to calves 6-8 months of age.		
Study Animals	Bovine		
Challenge Description	BRSV Strain 375		
Interval observed after			
challenge			
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.		
USDA Approval Date	September 20, 1993		

Study Type	Safety			
Pertaining to	ALL			
Study Purpose	Demonstrate safety of product under typical use conditions			
Product Administration	Two doses 14 days apart subcutaneously or intramuscularly			
Study Animals	Bovine			
Challenge Description	NA			
Interval observed after	NA			
challenge				
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance at the time of submission. No data are published because this study was submitted to USDA-APHIS prior to January 1, 2007, and APHIS only requires publication of data submitted after that date.			
USDA Approval Date	August 12, 1999			

Study Type	Safety				
Dortaining to		Salety			
Fertaining to	ALL				
Study Purpose	To demonstrate safety in	n pregnant cows			
Product	Two doses administered	l subcutaneously to he	ifers and cows, 1		
Administration	dose prior to breeding a	nd 1 dose during preg	nancy at different		
	trimesters. Heifers and c	cows were confirmed	to be pregnant at		
	administration during pr	egnancy.			
Study Animals	Heifers and cows-separate groups vaccinated during each trimester.				
-	Similar sized groups in each trimester were maintained as controls.				
Challenge Description	NA				
Interval observed after	Heifers and cows observed from the pre-breeding vaccination to				
challenge	post-breeding vaccination.				
Results					
	First Trimester (<93 days of gestation)				
		Vaccinate	Control		
	Enrolled	209	213		
	Excluded (not related	1	0		
	to vaccination)	1	0		
	Second Trimester (94-1	Second Trimester (94-187 days of gestation)			
	Vaccinate Control				
	Enrolled	315	310		
	Excluded (not related 2 2				
	to vaccination)				
	Third Trimester (188-250 days of gestation)				
		Vaccinate	Control		
	Enrolled	205	208		
	No adverse events were reported.				
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USDA Approval Date	March 5, 2013				