

Establishment Name	Boehringer Ingelheim Vetmedica, Inc.
USDA Vet Biologics Establishment Number	124
Product Code	1421.20
True Name	Canine Parainfluenza Vaccine, Modified Live Virus
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	
Date of Compilation Summary	December 05, 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	Canine Parainfluenza (CPI)
Study Purpose	Efficacy
Product Administration	
Study Animals	
Challenge Description	
Interval observed after challenge	
Results	Study data were evaluated by USDA-APHIS prior to product licensure and met regulatory standards for acceptance. Study data, however, are no longer available.

Study Type	Safety							
Pertaining to	ALL							
Study Purpose	Demonstrate safety of product under typical use conditions							
Product	2 Doses administered at a 3 week interval by the SQ route.							
Administration								
Study Animals	628 privately owned canines were included in the final analysis. More than							
	one-third of the canines (n=214) enrolled in the study were ≤ 8 weeks (≤ 59							
	days of age) at the time of first vaccination.							
	639 Total dogs were enrolled but 11 did not complete the study.							
Challenge	NA							
Description								
Observation	Canines were observed							
interval after	till the second vaccinat						n	
last treatment	following the second v		n and aga	un daily f	or 14 day	s.		
Results	Frequency of adverse events:							
	Adverse Event	Number < 59	Percent < 59	Number > 59	Percent > 59	Total	Percent of all	
	Auverse Event	$\frac{39}{\text{days old}}$	$\frac{39}{\text{days old}}$	days old	days old	number	animals	
	No adverse events	157	73.36	374	90.34	531	84.55	
	Diarrhea*	50	23.36	11	2.66	61	9.71	
	Gastroenteritis*	24	11.21	4	0.97	28	4.46	
	Injection site lump	3	1.40	10	2.42	13	2.07	
	Depression	8	3.74	1	0.24	9	1.43	
	Anorexia	8	3.74	0	0.00	8	1.27	
	Decreased appetite	4	1.87	4	0.97	8	1.27	
	Not drinking	8	3.74	0	0.00	8	1.27	
	Mortality Affirmed by licensee to have probable cause other than vaccination	4	1.87	2	0.48	6	0.96	
	Injection site pain	4	1.87	1	0.24	5	0.80	
	Injection site granuloma	0	0.00	4	0.97	4	0.64	
	Abdominal pain	3	1.40	0	0.00	3	0.48	
	Cough	0	0.00	3	0.72	3	0.48	
	Hypersalivation	3	1.40	0	0.00	3	0.48	
	Hyperactivity	0	0.00	2	0.48	2	0.32	
	Aggression	0	0.00	1	0.24	1	0.16	
	Corneal edema	0	0.00	1	0.24	1	0.16	
	Digestive tract disorder NOS	1	0.47	0	0.00	1	0.16	
	Fever	0	0.00	1	0.24	1	0.16	
	Fungal skin infection NOS	1	0.47	0	0.00	1	0.16	
	Hot spot (pyotraumatic dermatitis)	0	0.00	1	0.24	1	0.16	

	Injection site abscess	0	0.00	1	0.24	1	0.16
	Joint pain	0	0.00	1	0.24	1	0.16
	Local swelling (not application site)	0	0.00	1	0.24	1	0.16
	Miscellaneous eating disorder NOS	0	0.00	1	0.24	1	0.16
	Nasal discharge	1	0.47	0	0.00	1	0.16
	Ocular discharge	0	0.00	1	0.24	1	0.16
	Polydipsia	0	0.00	1	0.24	1	0.16
	Skin swelling	0	0.00	1	0.24	1	0.16
	Sneezing	0	0.00	1	0.24	1	0.16
	Tremor	0	0.00	1	0.24	1	0.16
	Weakness	0	0.00	1	0.24	1	0.16
	* 78 animals had confirmed diagnoses of at least one potential cause for diarrhea and gastroenteritis not attributable to vaccination (several animals had more than one disease).						
USDA	February 28, 2017						
Approval Date							