

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Elanco US Inc.
USDA Vet Biologics Establishment Number	196
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	September 14, 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	Canine Parainfluenza (CPI)				
Study Purpose	Efficacy against respiratory disease due to CPI				
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.				
USDA Approval Date	1984				

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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							
Administratio				•				
n								
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	1471							
Interval	Canines were of	served for	or 30 min	utes followi	ing the first	vaccinati	on and	
observed after	Canines were observed for 30 minutes following the first vaccination and							
	daily till the second vaccination. Each animal was then observed for 30 minutes following the second vaccination and again daily for 14 days.							
challenge Results		•					iys.	
Results	See table appended below for frequency of adverse events:							
		Niconaleson	Danasat	No and Same E	D	<u> </u>	Danasat	
	Adverse Event	Number ≤59	Percent ≤59	Number >5 9	Percent >5 9	Total	Percent of all	
	Adverse Event	days old	days old	days old	days old	number	animals	
	No adverse	-	73.36	-	-	F24	04.55	
	events	157		374	90.34	531	84.55	
	Diarrhea*	50	23.36	11	2.66	61	9.71	
	Gastroenteritis	24	11.21	4	.97	28	4.46	
	Injection site lump	3	1.4	10	2.42	13	2.07	
	Depression	8	3.74	1	0.24	9	1.43	
	Anorexia 8 3.74 0 0 8 1.27							
	Decreased 4 1.87 4 0.97 8						1.27	
	Not drinking 8 3.74 0 0 8							
	Mortality (affirmed by licensee to have 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	4	0.97	4	0.64	
	Abdominal pain	3	1.4	0	0	3	0.48	
	Cough	0	0	3	0.72	3	0.48	
	Hypersalivation	3	1.4	0	0	3	0.48	
	Hyperactivity	0	0	2	0.48	2	0.32	
	Aggression	0	0	1	0.24	1	0.16	
	Corneal edema	0	0	1	0.24	1	0.16	
	Digestive tract disorder (no	1	0.47	0	0	1	0.16	
	other signs)							
	Fever	0	0	1	0.24	1	0.16	

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	Fungal skin infection	1	0.47	0	0	1	0.16
	Hot Spot (pyotraumatic dermatitis)	0	0	1	0.24	1	0.16
	Injection site abscess	0	0	1	0.24	1	0.16
	Joint pain	0	0	1	0.24	1	0.16
	Local swelling (not application site)	0	0	1	0.24	1	0.16
	Miscellaneous eating disorder NOS	0	0	1	0.24	1	0.16
	Nasal Discharge	1	0.47	0	0	1	0.16
	Ocular Discharge	0	0	1	0.24	1	0.16
	Polydipsia	0	0	1	0.24	1	0.16
	Skin swelling	0	0	1	0.24	1	0.16
	Sneezing	0	0	1	0.24	1	0.16
	Tremor	0	0	1	0.24	1	0.16
	Weakness	0	0	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 Approval Date	February 28, 20	17					

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