

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Elanco US Inc.
USDA Vet Biologics Establishment Number	196
Product Code	14P5.22
True Name	Canine Coronavirus Vaccine, Killed Virus
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Duramune Cv-K Half Volume - Elanco US Inc.
Date of Compilation Summary	December 26, 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.

196 14P5.22 Page 1 of 3

Study Type	Efficacy		
Pertaining to	Canine coronavirus		
Study Purpose	To demonstrate effectiveness against intestinal disease due to		
	canine coronavirus		
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	December 3, 1984		

196 14P5.22 Page 2 of 3

			1		
Study Type	Safety				
Pertaining to	ALL				
Study Purpose	Demonstrate safety of product under typical use conditions				
Product Administration	Two doses were administered subcutaneously approximately two				
	weeks apart.				
Study Animals	A total of 675 dogs, privately owned and from commercial kennels				
	were enrolled in the study. From these dogs 234 were 6 weeks of				
	age or younger, at first vaccination. Three geographical sites were				
	represented.				
Challenge Description	NA				
Interval observed after	Animals were observed 30 minutes after each vaccination and daily				
challenge	for two (2) weeks after each vaccination.				
Results	Frequency of adverse events:				
		Number of	Percent of		
	No observed adverse events	Animals 628	Animals 93.0%		
	Injection Site Lesion	1	0.1%		
	Diarrhea-one day of loose stools	23	3.4%		
	Heavy Breathing	1	0.1%		
	Death-Hit by Car *	1	0.1%		
	Death-depression,decreased appetite, weight loss **	1	0.1%		
	Lameness (leg cramp) *	1	0.1%		
	Decreased appetite, weight loss, diarrhea, and dehydration *	4	0.6%		
	Gastroenteritis (vomiting) *	2	0.3%		
	Laceration *	1	0.1%		
	Prolapsed nictitan gland *	7	1.0%		
	Pyoderma *	5	0.7%		
	*Affirmed by study investigator to have cause other than vaccination **Cause of death was not determined by study investigator. Signs appeared 4 days after vaccination and death 8 days later. The injection site lesion was detected after the second vaccination and resolved within 15 days.				
USDA Approval Date	13 Jan 2011				
	•				

196 14P5.22 Page 3 of 3