

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

Establishment Name	Diamond Animal Health, Inc.		
USDA Vet Biologics Establishment Number	213		
Product Code	1841.20		
True Name	Parainfluenza 3 Vaccine, Modified Live Virus		
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Agri Laboratories, Ltd Diamond Animal Health, Inc. Diamond Animal Health, Inc.		
Date of Compilation Summary	February 06, 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.

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Study Type	Efficacy			
Pertaining to	Infectious Parainfluenza <sub>3</sub> (PI <sub>3</sub> ) Virus			
Study Purpose	To demonstrate effectiveness against disease caused by infectious			
	Parainfluenza <sub>3</sub> Virus			
<b>Product Administration</b>	1 dose 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.			
<b>USDA Approval Date</b>	May 15, 1998			

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Study Type	Safety		
Pertaining to	ALL		
Study Purpose	Demonstrate safety of product under typical use conditions		
<b>Product Administration</b>	One dose		
Study Animals	Bovine		
<b>Challenge Description</b>	NA		
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.		
<b>USDA Approval Date</b>	July 13, 1998		

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Study Type	Safety						
Pertaining to	ALL						
Study Purpose	To demonstrate sa	To demonstrate safety in pregnant cows and calves nursing					
	pregnant cows						
Product	Two doses admin	Two doses administered subcutaneously to heifers and cows, 1					
Administration	dose prior to breeding and 1 dose during pregnancy at different						
	trimesters. Heifer	trimesters. Heifers and cows were confirmed to be pregnant at					
	administration during pregnancy.						
Study Animals	Heifers and cows-separate groups vaccinated during each trimester.						
	Similar sized groups in each trimester were maintained as controls.						
<b>Challenge Description</b>	NA						
Interval observed after	Heifers and cows	obser	ved from pre-breed	ding vaccination through			
challenge	birth of calves. No	ursing	calves observed the	hrough 4 weeks of age.			
Results	Summary of Calv	Summary of Calving Rates					
	(Normal calves de	elivere	d/Total deliveries	)			
		ı					
	Trimester		inates	Controls			
	1		208 (96%)	205/213 (96%)			
	2		313 (96%)	293/308 (95%)			
	3		205 (94%)	195/208 (94%)			
	Total	695/	726 (96%)	693/729 (95%)			
	First Trimester (<	93 day					
			Vaccinate	Control			
	Enrolled		209	213			
	Excluded (not re	lated	1	0			
	to vaccination)						
	Aborted or stillb		6	5			
	Died at or after b	oirth	2	3			
	G 155						
	Second Trimester	Second Trimester (94-187 days of gestation)					
	T 11 1		Vaccinate	Control			
	Enrolled	1 , 1	315	310			
	Excluded (not re	lated	2	2			
	to vaccination)						
	Aborted or stillb		7	9			
	Died at or after b		4	6*			
	*one death was fr	om a s	set of twins; the ot	her was normal			
	Thind Trime actor (	100 24	O dava of acatatic	· · ·			
	inna immester (	100-23	0 days of gestation Vaccinate	Control			
	Enrolled		205	208			
	Aborted or stillb	orn	9	9*			
			3	4**			
	Died at or after birth 3 4**  *one stillborn was from a set of twins; the other was normal						
	**one dead was from a set of twins; the other was normal						
	one dead was n	ioni a	set of twills; the o	uici was noimai			

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<b>USDA Approval Date</b>	March 5, 2013

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