

Summary of Studies Supporting USDA Product Licensure

Establishment Name	ProtaTek International, Inc.			
USDA Vet Biologics Establishment Number	329			
Product Code	2775.06			
True Name	Mycoplasma Hyopneumoniae Bacterin			
Tradename(s)/Distributor (if different from manufacturer)	MycoGard-1 - PharmGate Animal Health			
Date of Compilation Summary	February 08, 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.

329 2775.06 Page 1 of 4

Study Type	Efficacy						
Pertaining to	Mycoplasma hyopneumoniae						
Study Purpose	Efficacy against respiratory disease						
Product Administration	One dose, given intramuscularly.						
Study Animals	Commercial pigs, 12 days ± 1 day of age. 22 vaccinates and 21						
	controls.						
Challenge Description	All pigs were challenged 33 days after vaccination with						
	Mycoplasma hyopneumoniae.						
Interval observed after	Lungs evaluated 37 days after challenge for percent of the lung						
challenge	mass that was abnormal (consolidated).						
Results	Summary of lung conso	olidation					
	Treatment Group	Lung cor	solidation				
		0%	<u>></u> 0.50%				
	Vaccinates	11/22	9/22				
	Controls	2/20	18/20				
	1 pig in the control grochallenge. Raw data shown on atta		•	orior to			
USDA Approval Date	12/17/2013						

329 2775.06 Page 2 of 4

Lung consolidation scores (%), in order of rank:

Vaccinate	Control
0	0
0	0
0	0.50
0	1.00
0	1.00
0	4.00
0	5.00
0	5.50
0	6.00
0	6.25
0	6.50
0.50	6.75
0.50	8.00
1.00	9.00
1.00	9.75
1.25	10.00
1.50	11.75
2.50	12.50
3.00	14.25
5.00	16.50
6.25	
15.50	

329 2775.06 Page 3 of 4

Study Type	Safety					
Pertaining to	ALL					
Study Purpose	Demonst	rate safety of produc	t under typical use conditions.			
Product Administration	1 dose administered by intramuscular route					
Study Animals	832 pigs ranging in age from 10 days to 3 weeks at each of 3					
-	sites. All were vaccinated intramuscularly (IM). 1/3 of the pigs at					
	each site were of minimum age recommended for product					
	administration.					
Challenge Description	NA					
Interval observed after	Animals were observed immediately following injection and					
challenge	then daily	y through 21 days af	ter vaccination.			
Results		Frequency of				
		adverse events	IM Injection			
		(832 Total Pigs)	nvi injection			
		`				
		Injection Site				
		Swelling*	2			
		(transient, ≤2 cm				
		diameter) Respiratory				
		Distress	0			
		Pain on injection	0			
		Pig Deaths				
		(Affirmed by	9			
		licensee to have				
		cause other than				
		vaccination)	021			
		No adverse	821			
	events *Injustion site availing resolved by Day 7 nest vessination					
	*Injection site swelling resolved by Day 7 post-vaccination					
LICDA Approval Deta	06/21/20	16				
USDA Approval Date	1					

329 2775.06 Page 4 of 4