

Summary of Studies Supporting USDA Product Licensure

Establishment Name	HIPRA USA, LLC
USDA Vet Biologics Establishment Number	449A
Product Code	2852.00
True Name	Staphylococcus Aureus Bacterin
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	VIMCO - No distributor specified
Date of Compilation Summary	September 12, 2018

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	Staphylococcus aureus						
Study Purpose	Efficacy again mastitis						
Product	Two doses administered intramuscularly at approximately 35 and 14						
Administration	days before kidding						
Study Animals	Pregnant goats, primparous and multiparous, randomly divided into						
Study Minimus	17 vaccinates and 15 controls.						
Challenge Description	All goats were challenged with <i>S. aureus</i> 36 days after final						
	vaccination.						
Interval observed	Observed for 14 days						
after challenge							
Results	Clinical Signs of Mastitis after Ch	nallenge					
		Vaccinates	Controls				
	Udder swelling	3/17	13/15				
	Udder edema	0/17	3/15				
	Udder sclerosis	5/17	14/15				
	Udder gangrene	0/17	1/15				
	Blood in milk	0/17	1/15				
	Clots in milk 3/17						
	Aggregates in milk 1/17						
	Abnormal milk color 5/17 14						
	Abnormal milk density 1/17 3/15						
	Raw data shown on attached page.						
USDA Approval Date							

		Clincal signs of Mastitis after Challenge								
ID	Treatment	Swelling	Edema	Sclerosis	Gangrene	Blood	Clots	Aggregates	Color	Density
3	vaccinate	no	no	no	no	no	no	no	yes	no
18	vaccinate	yes	no	yes	no	no	yes	no	yes	no
21	vaccinate	no	no	yes	no	no	yes	no	yes	no
22	vaccinate	no	no	no	no	no	no	no	no	no
24	vaccinate	no	no	no	no	no	no	no	no	no
32	vaccinate	no	no	no	no	no	no	no	no	no
34	vaccinate	yes	no	yes	no	no	no	no	no	no
36	vaccinate	no	no	no	no	no	no	no	no	no
42	vaccinate	no	no	no	no	no	no	no	no	no
46	vaccinate	no	no	yes	no	no	no	no	no	no
47	vaccinate	no	no	no	no	no	no	no	no	no
49	vaccinate	yes	no	yes	no	no	yes	yes	yes	yes
53	vaccinate	no	no	no	no	no	no	no	no	no
58	vaccinate	no	no	no	no	no	no	no	no	no
59	vaccinate	no	no	no	no	no	no	no	no	no
73	vaccinate	no	no	no	no	no	no	no	yes	no
75	vaccinate	no	no	no	no	no	no	no	no	no
2	control	yes	no	yes	no	no	yes	no	yes	no
7	control	yes	no	yes	no	no	no	yes	yes	no
9	control	yes	no	yes	no	no	yes	no	yes	no
10	control	yes	no	yes	no	no	yes	no	yes	no
16	control	yes	yes	yes	yes	yes	no	yes	yes	yes
20	control	yes	no	yes	no	no	yes	no	yes	no
25	control	yes	no	yes	no	no	yes	yes	yes	no
26	control	yes	no	yes	no	no	yes	no	yes	no
33	control	no	no	no	no	no	yes	no	no	no
39	control	no	no	yes	no	no	yes	yes	yes	no
40	control	yes	no	yes	no	no	yes	no	yes	no
66	control	yes	yes	yes	no	no	yes	no	yes	yes
69	control	yes	no	yes	no	no	yes	yes	yes	yes
70	control	yes	yes	yes	no	no	yes	yes	yes	no
78	control	yes	no	yes	no	no	yes	yes	yes	no

Study Type	Safe	tv							
Pertaining to	ALL								
Study Purpose	Observe safety of product under typical use conditions								
Product	Two doses administered intramuscularly at approximately 35 and 14 days								
Administration	before kidding								
Study Animals	203 pregnant goats total at 2 geographical sites. 1/3 were primiparous								
Study Ammuns	(minimum age of \geq 7 months old) and 2/3 were multiparous.								
Challenge	NA								
Description	NA								
Interval	Animals were observed for 1 hour after each injection and then daily until								
observed after	parturition.								
challenge									
Results									
				Max si	ze of inied	ction site	e reaction		
		Max size of injection site reaction					Adverse events affirmed		
			Total					by licensee to have	
		Group	number	< 1.5	1.5-5.0	> 5.0	None	possible cause other	
	Site	•	animals		cm	cm	observed	than vaccine	
		1	47	7	24	0	16		
	1	2	44	8	21	1	14	7	
		1	57	22	11	0	24		
	2	2	55	22	9	0	24	10	
		-			-	v		f the study except for	
	All local reactions were resolved by the conclusion of the study except for swelling in one animal.								
		0		141.					
USDA	October 6, 2016								
Approval Date									