

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Colorado Serum Company
USDA Vet Biologics Establishment Number	188
Product Code	2701.02
True Name	Pasteurella Multocida Bacterin
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	BunnyVac - No distributor specified
Date of Compilation Summary	October 28, 2021

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	Pasteurella Multocida Bacterin					
Study Purpose	To demonstrate efficacy against <i>Pasteurella multocida</i> (commonly referred to as "snuffles"), which is predominantly an upper respiratory disease.					
Product Administration	Two doses injected subcutaneously 4 weeks apart for two					
	different groups, Group A and Group B. Group C was a placebo-vaccinated group.					
Study Animals	30 New Zealand White rabbits 12 weeks old, 10 rabbits per vaccination group.Both male and female.All seronegative for <i>Pasteurella multocida</i> antibody.					
Challenge Description	21 days after the second vaccine dose was administered, all rabbits were challenged with live <i>Pasteurella multocida</i> .					
Interval observed after challenge	All rabbits were observed for 15 days post-challenge.					
Results	Summary of Observations	Group A (Vaccine)	Group B (Vaccine)	Group C (Placebo)		
	Mortality* S/T	10/10	10/10	4/10		
	Mortality * = Survivors/Total. A rabbit was considered affected if mortality was due to <i>Pasteurella multocida</i> . Raw data on the following page.					
USDA Approval Date	February 6, 2013					

PASTEURELLA MULTOCIDA BACTERIN Code 2701.02 RABBIT EFFICACY STUDY

No ID	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 - 20	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
2 - 13	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
3 - 23	S	S	S	S	S	S	S	D							
4 - 8	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
5 - 22	S	S	S	S	S	S	D								
6-3	S	S	S	D											
7 - 11	S	S	S	S	S	D									
8-6	S	S	S	S	D										
9 - 28	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
10 - 24	S	S	S	S	S	S	D								
Survive	e = S		D = Dea	d											

GROUP C (Placebo) POST CHALLENGE MORTALITY

GROUP C (Placebo) POST CHALLENGE MORTALITY

Post-Challenge	Dead/Total
Day 1	0/10
Day 2	0/10
Day 3	0/10
Day 4	1/10
Day 5	2/10
Day 6	3/10
Day 7	5/10
Day 8	6/10
Day 9	6/10
Day 10	6/10
Day 11	6/10
Day 12	6/10
Day 13	6/10
Day 14	6/10
Day 15	6/10

Study Type	Safety					
· · · · · ·						
Pertaining to	Pasteurella Multocida Bacterin					
Study Purpose		•	ella Multocida Bacterin under			
	typical use conditions.					
Product Administration	Two doses injected subcutaneously 3-4 weeks apart					
Study Animals	155 New Z	ealand White rabbits a	nd 153 California breed rabbits			
	at three diff	ferent locations.				
Challenge Description	NA					
Interval Observed after	All rabbits were observed at 15 minutes and 2 hours on day of					
Vaccination	vaccination, daily for 14 days post-vaccination					
Results	Location No. Vaccinates Adverse Reactions					
			PV-1 PV-2			
	1	70 NZ, 28 C	0/98 * 0/96			
	23	85 NZ, 0 C	0/85 0/85			
	3	0 NZ, 125 C	0/125 0/125			
	 Key: NZ = New Zealand, C =California, PV=Post-Vaccination * Two NZ rabbits died during the study and licensee determined that both deaths were not related to the study or the vaccine. 					
	Normalia 20, 2012					
USDA Approval Date	November 20, 2012					