

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Colorado Serum Company
USDA Vet Biologics Establishment Number	188
Product Code	9360.00
True Name	Caprine Serum Fraction Immunomodulator
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Pulmo-Clear - No distributor specified Pulmo-Clear - Professional Biological Company
Date of Compilation Summary	March 07, 2023

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.

188 9360.00 Page 1 of 3

Study Type	Efficacy				
Pertaining to	Caprine Serum Fraction, Immunomodulator				
Study Purpose	To demonstrate efficacy of product against lower respiratory				
	disease in equines.				
Product Administration					
Study Animals	Equine				
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.				
USDA Approval Date	April 29, 2002				

188 9360.00 Page 2 of 3

Study Type	Safety				
Pertaining to	Caprine Serum F1	raction, Immuno	modulator		
Study Purpose	Demonstrate safe	ty of product in l	healthy equines		
Product Administration	Two doses IM, se	even to ten days a	apart		
Study Animals	Two hundred and forty-eight equines, included in eleven studies, were evaluated. Equines of various breeds and both sexes from various locations in Midwestern states of Texas, Arkansas, Oklahoma, and Montana were used. Test animal ages at first product administration: 8 mo. 28 head 8 mo. to 2 yr. 87 head				
Challanga Daganintian	Over 2 yr. 133 head				
Challenge Description	Observation following each descriptions				
Interval observed after challenge	Observation following each dose: 7 days. Observation included change in appetite, abscesses, swelling and soreness at inoculation site.				
Results	Number of Equines exhibiting local reactions associated with product administration. Reaction				
	attending the farm at the time				
USDA Approval Date	April 29, 2002				

188 9360.00 Page 3 of 3