



## Summary of Studies Supporting USDA Product Licensure

Establishment Name	Elanco US Inc.
USDA Vet Biologics Establishment Number	196
Product Code	12D5.04
True Name	Bursal Disease-Reovirus Vaccine, Standard & Variant, Killed Virus
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	AviPro 226 BTO2-REO - Elanco Salud Animal, S.A. de C.V. AviPro 226 BTO2-REO - Elanco US Inc. AviPro 226 BTO2-REO - J. Orbe Asesores S.A.C. AviPro 226 BTO2-REO - Laboratories Bimex SRL AviPro 226 BTO2-REO - No distributor specified
Date of Compilation Summary	February 22, 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.**

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Infectious bursal disease virus
<b>Study Purpose</b>	To demonstrate protection of progeny against type 1 infectious bursal disease, standard and variant strains
<b>Product Administration</b>	Subcutaneous injection to breeder chickens
<b>Study Animals</b>	
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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 30, 1995

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Infectious bursal disease virus (IBDV)
<b>Study Purpose</b>	To demonstrate efficacy against IBDV, AL-2 variant
<b>Product Administration</b>	One dose administered subcutaneously
<b>Study Animals</b>	20 vaccinates and 10 controls, unprimed chickens
<b>Challenge Description</b>	All chickens were challenged four weeks after vaccination with IBDV AL-2 variant.
<b>Interval observed after challenge</b>	One week post-challenge all chickens were weighed, necropsied, and the bursa weight determined.
<b>Results</b>	<p>The ratio of the bursa weight over body weight was compared between the treatment groups.</p> <p>Raw Data is listed in the table below.</p>
<b>USDA Approval Date</b>	October 1, 2009

<b>Vaccinates</b>			
Chicken	Body Weight (g)	Bursal Weight (g)	Bursal / Body Wt. (g)
1	680	1.15	0.001691176
2	642	1.25	0.00194704
3	696	3.21	0.004612069
4	824	1.46	0.001771845
5	806	1.26	0.001563275
6	670	2.34	0.003492537
7	588	1.37	0.002329932
8	664	1.56	0.002349398
9	600	1.42	0.002366667
10	556	2.32	0.004172662
11	602	2.54	0.004219269
12	740	1.99	0.002689189
13	738	2.26	0.003062331
14	726	2.93	0.004035813
15	670	1.85	0.002761194
16	550	1.22	0.002218182
17	738	2.86	0.003875339
18	652	1.31	0.002009202
19	582	1.61	0.002766323
20	638	1.42	0.002225705

<b>Controls</b>			
Chicken	Body Weight (g)	Bursal Weight (g)	Bursal / Body Wt. (g)
1	754	1.21	0.001604775
2	628	0.64	0.001019108
3	666	0.8	0.001201201
4	766	1.25	0.001631854
5	688	0.94	0.001366279
6	810	1	0.001234568
7	662	0.8	0.001208459
8	774	0.8	0.001033592
9	702	1.13	0.001609687
10	691	0.91	0.001316932

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Reovirus
<b>Study Purpose</b>	To demonstrate protection of progeny against malabsorption caused by Reovirus
<b>Product Administration</b>	Subcutaneous injection to breeder chickens
<b>Study Animals</b>	
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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 30, 1995

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Avian reovirus
<b>Study Purpose</b>	To demonstrate efficacy against malabsorption syndrome caused by avian reovirus in progeny when product administered to hens
<b>Product Administration</b>	Subcutaneous injection
<b>Study Animals</b>	Chicken
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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>	March 22, 1984

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Avian reovirus
<b>Study Purpose</b>	To demonstrate efficacy against tenosynovitis caused by avian reovirus in progeny when product administered to hens
<b>Product Administration</b>	Subcutaneous
<b>Study Animals</b>	Chicken
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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>	October 11, 1983

<b>Study Type</b>	Efficacy
<b>Pertaining to</b>	Reovirus
<b>Study Purpose</b>	To demonstrate protection of progeny against tenosynovitis caused by Reovirus
<b>Product Administration</b>	Subcutaneous injection to breeder chickens
<b>Study Animals</b>	
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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 30, 1995



<b>Study Type</b>	Safety
<b>Pertaining to</b>	All fractions
<b>Study Purpose</b>	To demonstrate safety under field conditions
<b>Product Administration</b>	Subcutaneous
<b>Study Animals</b>	Chicken
<b>Challenge Description</b>	
<b>Interval observed after challenge</b>	
<b>Results</b>	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>	December 8, 1995