

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Zoetis Inc.
USDA Vet Biologics Establishment Number	190
Product Code	1A88.R3
True Name	Bursal Disease-Marek's Disease Vaccine, Serotype 3, Live Marek's Disease Vector
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Poulvac Procerta HVT-IBD - No distributor specified
Date of Compilation Summary	December 07, 2020

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.

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Study Type	Efficacy		
Pertaining to	Infectious Bursal Disease Virus (IBDV)		
Study Purpose	Demonstrate efficacy against Infectious Bursal disease		
Product Administration	One dose by the subcutaneous route		
Study Animals	Day-old chicks divided into 3 groups		
	Group 1 vaccinated with product and challenged		
	Group 2 placebo vaccinated and challenged (positive control)		
	Group 3 placebo vaccinated non-challenged (negative control)		
Challenge Description	USDA STD strain given at 34 days of age		
Interval observed after	The birds were observed daily for 4 days then tissues were		
challenge	examined.		
Results	Vaccines and controls were evaluated in terms of Infectious		
	Bursal disease grossly observable lesions per the criteria in 9		
	CFR 113.331(c).		
	Birds with grossly observable lesions:		
	Group 1: 0/30		
	Group 2: 30/30		
	Group 3: 0/29		
	Requirements of 9 CFR 113.331(c) were met.		
	Raw data on attached page		
USDA Approval Date	21 September 2018		
USDA Approvai Date	21 September 2016		

Group	Animal	Normal	Edema
1	207	X	
1	221	X	
1	224	X	
1	225	X	
1	237	X	
1	276	X	
1	287	X	
1	289	X	
1	309	X	
1	310	X	
1	321	X	
1	341	X	
1	342	X	_
1	344	X	
1	329	X	

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Group	Animal	Normal	Edema
1	212	X	
1	219	X	
1	226	X	
1	238	X	
1	244	X	
1	251	X X X X X X X X X X X	
1	253	X	
1	266	X	
1	267	X	
1	281	X	
1	282	X	
1	292	X	
1	293	X	
1	319	X	
1	330	X	
2	211		X
2	216		X
2	223		X
2 2	228		X
2	243		X
2 2 2	245		X X X X
2	247		X
2	275		X X
2	279		X
2 2 2	291		X
2	296		X
2	313		X
2	320		X
2	336		
	337		X X X X
2 2	220		X
2	229		X
2	233		X
2 2	248		X
2	249		X X X
2	258		X
2	270		X
2 2 2	273		X
	284		X
2 2	288		X

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Group	Animal	Normal	Edema
2	290		X
2 2	307		X
2	325		X
2 2	334		X
2	335		X
3	202	X	
	217	X	
3 3	257	X	
3	269	X	
3	277	X	
3	305	X X X X X X X X X X X X X X X X X X X	
3	306	X	
3	308	X	
3	315	X	
3	316	X	
3	322	X	
3	333	X	
3	340	X	
3	259	X	
3	232	X	
3	241	X	
3	242	X	
3	250	X	
3	252	X	
3	262	X	
3	265	X	
3	271	X	
3	297	X	
3	303		
3	312	X X X X	
3	318	X	
3 3	324	X	
3	338		
3	209	X	

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Study Type	Efficacy		
Pertaining to	Infectious Bursal Disease Virus (IBDV)		
Study Purpose	Demonstrate efficacy against infectious bursal disease		
Product Administration	One dose by the <i>in ovo</i> route to 18-day-old embryonated chicken		
	eggs		
Study Animals	E18 eggs divided into 3 groups		
	Group 1 vaccinated with product and challenged		
	Group 2 placebo vaccinated and challenged (positive control)		
	Group 3 non-vaccinated non-challenged (negative control)		
Challenge Description	USDA STD IBDV given at 34 days of age		
Interval observed after	The birds were observed daily for 4 days and then tissues		
challenge	examined.		
Results	Vaccinates and controls were evaluated in terms of infectious		
	bursal disease gross acute lesions per the criteria in 9 CFR		
	113.331(c).		
	Birds with observable lesions:		
	Group 1: 0/30		
	Group 2: 30/30		
	Group 3: 0/29		
	Requirements of 9 CFR 113.331(c) were met.		
	Raw data on attached page		
LICD A Annuaval Data	20 September 2018		
USDA Approval Date	20 September 2016		

Group	Animal	Normal	Edema	Edema and Hemorrhage
1	601	X		
1	604	X		
1	612	X		
1	621	X		
1	629	X		
1	633	X		
1	639	X		
1	642	X		
1	648	X		
1	652	X		
1	662	X		
1	665	X		
1	674	X		

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1	677	X		
1	686	X		
1	689	X		
1	691	X		
1	692	X		
1	695	X		
1	697	X		
1	707	X		
1	709	X		
1	714	X		
1	716	X		
1	720	X		
1	722	X		
1	724	X		
1	725	X		
1	730	X		
1	744	X		
2	607		X	
2	622		X	
2	625			X
2	628		X	
2	630		X	
2	635		X	
2	638		X	
2	640		X	
2	643		X	
2	644		X	
2	645		X	
2	647		X	
2	658		X	
2	661		X	
2	664		X	
2	673		X	
2	683		X	
2	688		X	
2	690		X	
2	693		X	
2	703		X	
2	704		X	
2	705		X	
2	708		X	
2	713		X	
2	728		X	
	. = 0			

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2	729			X
2	734		X	
2	737		X	
2	739		X	
3	606	X		
3	609	X		
3	613	X		
3	620	X		
3	634	X X		
3	637	X		
3	649	X		
3	650	X		
3	653	X X X X X X X		
3	655	X		
3	656	X		
3	666	X		
3	669	X		
3	671	X		
3	676	X		
3	684	X		
3	687	X		
3	696	X		
3	700	X		
3	701	X		
3	706	X		
3	711	X		
3	715	X		
3	726	X		
3	727	X		
3	733	X		
3	736	X		
3	738	X X X		
3	741	X		

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Study Type	Efficacy
Pertaining to	Infectious Bursal Disease Virus
Study Purpose	Demonstrate efficacy against Standard Infectious Bursal disease
	63 days post vaccination
Product Administration	1 dose by <i>in ovo</i> route
Study Animals	Treatment groups:
	Group 1 vaccinated <i>in ovo</i> at 18 days of embryonation with
	product and challenged
	Group 2 placebo vaccinated SQ at day-of-age and challenged
	(positive control)
	Group 3 placebo vaccinated SQ at day-of-age and not challenged
	(negative control)
Challenge Description	USDA STD IBDV given 63 days after vaccination
Interval observed after	Birds observed daily for 4 days
challenge	
Results	Vaccinates and controls were evaluated in terms of Infectious
	Bursal Disease gross bursal lesions per criteria in 9 CFR
	113.331(b)(2)(i).
	D: 1 :/1 1 1 1 1 1 1
	Birds with grossly observable lesions:
	Group 1: 0/30
	Group 2: 30/30
	Group 3: 0/28
	Requirements of 9 CFR 113.331(b)(2)(i) were met.
	Raw data on attached page.
USDA Approval Date	January 6, 2020
OSDA Appiovai Date	January 0, 2020

Group	Animal	Normal	Edema
1	103	X	
1	135	X	
1	161	Χ	
1	164	Χ	
1	171	Χ	
1	174	Χ	
1	183	Χ	
1	184	Χ	
1	204	Χ	
1	214	Χ	
1	220	Χ	
1	223	Х	
1	226	X	
1	230	X	
1	233	Χ	

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1	236	X	
1	237 X		
1	242 X		
1	246	Х	
1	252	X	
1	253	X	
1	256	Х	
1	263	X	
1	286	Х	
1	290	Х	
1	314	Х	
1	319	Х	
1	330	X	
1	335	X	
1	337	X X X X X X X X X X X X X X X X X X X	
2	115		Х
2	123		X
2	132		Х
2	133		Х
2	134		X X X
2	141		Х
2	144		Х
2	153		Х
2	159		X
2	165		X X X X X
2	172		X
2	188		X
2	194		Х
2	213		X
2	225		Χ
2	229		Х
2	249		Х
2	264		X
2	266		X
2	273		Х
2	281		Х
2	283		
	289		
2	301		X X X X X X X X X
2	303		Х
2	312		Х
2	315		X
2	318		Χ
2	320		X

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2 323	_			
3 116 X 3 117 X 3 119 X 3 120 X 3 140 X 3 145 X 3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 280 X 3 285 X 3 285 X 3 308 X 3 308 X 3 333 X 3 334 X	2	323		X
3 117 X 3 119 X 3 120 X 3 140 X 3 145 X 3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 280 X 3 285 X 3 297 X 3 308 X 3 333 X 3 334 X			Х	
3 119 X 3 120 X 3 140 X 3 145 X 3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 280 X 3 285 X 3 297 X 3 308 X 3 333 X 3 334 X		117	Х	
3 120 X 3 140 X 3 145 X 3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 285 X 3 285 X 3 297 X 3 308 X 3 333 X 3 333 X 3 334 X	3	119	Х	
3 140 X 3 145 X 3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 285 X 3 285 X 3 297 X 3 308 X 3 333 X 3 333 X 3 334 X	3	120	X	
3 145 X 3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 285 X 3 285 X 3 297 X 3 308 X 3 333 X 3 334 X	3	140	X	
3 150 X 3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 308 X 3 333 X 3 333 X 3 334 X	3	145	X	
3 152 X 3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 297 X 3 398 X 3 398 X 3 333 X 3 334 X	3	150	Χ	
3 157 X 3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 297 X 3 308 X 3 333 X 3 334 X	3		X	
3 176 X 3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 308 X 3 308 X 3 333 X 3 334 X	3	157	X	
3 180 X 3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 333 X 3 333 X			X	
3 181 X 3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 285 X 3 297 X 3 398 X 3 398 X 3 333 X 3 333 X	3	180	Χ	
3 210 X 3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 333 X 3 334 X	3		Χ	
3 212 X 3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 335 X 3 333 X 3 334 X	3	210	Χ	
3 234 X 3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 335 X 3 333 X 3 334 X	3		X	
3 258 X 3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3	234	X	
3 260 X 3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3	258	Χ	
3 267 X 3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3	260	X	
3 272 X 3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3	267	X	
3 279 X 3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X			X	
3 280 X 3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3	279	X	
3 285 X 3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3		X	
3 288 X 3 297 X 3 308 X 3 325 X 3 333 X 3 334 X	3	285	Х	
3 297 X 3 308 X 3 325 X 3 333 X 3 334 X		288	Х	
3 308 X 3 325 X 3 333 X 3 334 X		297	Х	
3 325 X 3 333 X 3 334 X			Х	
3 333 X 3 334 X	3		Х	
3 334 X			X	
	3	334	X	

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Study Type	Efficacy
Pertaining to	Infectious Bursal Disease Virus
Study Purpose	Demonstrate efficacy against Standard Infectious Bursal disease
	63 days post vaccination
Product Administration	1 dose by the subcutaneous (SQ) route
Study Animals	Treatment groups at day-of-age:
	Group 1 vaccinated SQ with product and challenged
	Group 2 placebo vaccinated SQ and challenged (control)
	Group 3 placebo vaccinated SQ and not challenged (control)
Challenge Description	USDA STD IBDV given 63 days after vaccination
Interval observed after	Birds observed daily for 4 days
challenge	
Results	Vaccinates and controls were evaluated in terms of Infectious
	Bursal Disease gross bursal lesions per criteria in 9 CFR
	113.331(b)(2)(i).
	Birds with grossly observable lesions:
	Group 1: 0/25
	Group 2: 30/30
	Group 3: 0/28
	Requirements of 9 CFR 113.331(b)(2)(i) were met.
	Raw data on attached page.
USDA Approval Date	January 6, 2020

Group	Animal	Normal	Edema
1	102	Х	
1	112	Х	
1	124	Х	
1	163	Х	
1	169	Х	
1	185	Х	
1	197	Х	
1	199	Х	
1	202	X	
1	207	X	
1	209	X	
1	218	X	
1	224	X	
1	228	X	
1	231	Χ	
1	238	Χ	
1	265	Χ	
1	270	Χ	

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			, ,
1	275	Х	
1	282	X	
1	287	Х	
1	293	X X	
1	304	Х	
1	322	Х	
1	336	X	
2	115		X
2	123		X
2	132		X
2	133		X
2	134		X
2	141		X
2	144		X
2	153		X X X X X X
2	159		X
2	165		X
2	172		Х
2	188		Х
2	194		X X X X
2	213		Х
2	225		Х
2	229		
2	249		X X X
2	264		X
2	266		X
2	273		Х
2	281		X
2	283		X
2	289		Х
2	301		Х
2	303		Х
2	312		X
2	315		Х
2	318		X
2	320		Х
2	323		Х
3	116	Х	
3	117	Х	
3	119	Х	
3	120		
3	140	X	
3	145	X X X	
3	150	Х	
			'

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3	152	X
3	157	X
3	176	X
3	180	X
3	181	X
3	210	X
3	212	X
3	234	Х
3	258	X
3	260	X
3	267	Х
3	272	Х
3	279	X
3	280	X
3	285	X
3	288	Х
3	297	X
3	308	X
3	325	X
3	333	Х
3	334	Х

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Study Type	Efficacy
Pertaining to	Marek's Disease Virus Serotype 3
Study Purpose	Demonstrate efficacy against Marek's disease
Product Administration	One dose by the <i>in ovo</i> route
Study Animals	Eggs at 18 days of embryonation divided into three groups
	Group 1 vaccinated with product and challenged
	Group 2 placebo vaccinated and challenged (challenge control)
	Group 3 sham vaccinated non-challenged (nonchallenge control)
Challenge Description	GA 22 strain given at 5 days of age
Interval observed after	The birds were observed daily for 7 weeks
challenge	
Results	Vaccinates and controls were evaluated in terms of Marek's
	disease grossly observable lesions per the criteria in 9 CFR
	113.330(c).
	Birds with observable lesions:
	Group 1: 5/30
	Group 2: 26/30
	Group 3: 0/30
	Requirements of 9 CFR 113.330(c) were met.
	Raw data on attached pages.
USDA Approval Date	7 September 2018

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Group	0.11	"X"	' indi	cates	tissu	e has		Sissue				due	to M	arek'	's dis	ease
Treatment Group	Animal ID	Eyes	Skin	Breast muscle	Heart	Lung	Liver	Proventriculus	Spleen	Gonads	Kidney	Intestines	Pancreas	Nerves	Thymus	Thymic atrophy
1	407			X						X						
1	411															
1	412															
1	414															
1	417															
1	420															
1	424															
1	429															
1	434															
1	436															
1	438								X		X	X				
1	442															
1	458															
1	466															
1	468															
1	469															
1	481									X		X	X	X		
1	482															
1	485															
1	487													X		
1	490															
1	493															
1	494															
1	505															
1	518															
1	520															
1	528															
1	530															
1	543															

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1				1					1	T 7		X 7		X 7		
1	551						T 7			X		X		X		
2	403				X		X				X					
2	404				X		X		X	X						
2	408				X					X						
2	409	X			X											
2	419		X	X	X	X	X				X					
2	423		X		X		X		X					X		
2	440		X		X						X					
2	448															
2	450		X		X											
2	452		X								X					
2	454				X		X							X		
2	456															
2	463				X		X				X					
2	467		X		X		X		X					X		
2	470		X		X	X	X		X							X
2	474						X		X							
2	478				X		X		X	X	X	X	X		X	
2	479		X				X		X		X					
2	483											X		X		
2	492				X		X		X			X				
2	495				X		X				X					
2	500				X					X	X					X
2	501															
2	506				X		X		X	X						
2	510				X		X		X			X		X		
2	522				X		X				X					
2	539				X		X		X		X	X		X		
2	540				X		X		X		X					
2	549															
2	553						X		X			X				
3	401															
3	405															
3	410															
3	416															
3	422						<u> </u>									\Box
3	426															\vdash
3	431															\vdash
3	432															\vdash
3	439															\vdash
3	444															\vdash
	777		l	<u> </u>				<u> </u>	<u> </u>		<u> </u>	<u> </u>		l	l	

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3	459								
3	475								
3	480								
3	484								
3	488								
3	498								
3	502								
3	508								
3	511								
3	512								
3	514								
3	519								
3	521								
3	523								
3	525								
3	527								
3	532								
3	537								
3	545								
3	548								

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Study Type	Efficacy
Pertaining to	Marek's Disease Virus (MDV) Serotype 3
Study Purpose	Demonstrate efficacy against Marek's disease
Product Administration	One dose by the subcutaneous route
Study Animals	Day-old chicks divided into 3 groups
	Group 1 vaccinated with Code product and challenged
	Group 2 placebo vaccinated and challenged (positive control)
	Group 3 placebo vaccinated non-challenged (negative control)
Challenge Description	GA 22 strain given at 5 days of age
Interval observed after	The birds were observed daily for 7 weeks then tissues were
challenge	examined.
Results	Vaccinates and controls were evaluated in terms of Marek's
	disease grossly observable lesions per the criteria in 9 CFR
	113.330(c).
	Birds with observable lesions:
	Group 1: 3/30
	Group 2: 25/29
	Group 3: 0/27
	Requirements of 9 CFR 113.330(c) were met. Thirty birds in
	Group 2 and Group 3 survived to 5 days of age; birds were
	excluded from the study for causes unrelated to conduct of the
	study.
	Raw data on attached page
USDA Approval Date	18 October 2018

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treatment	animal	eyes	skin	breast muscle	heart	liver	proventriculus	spleen	gonads	kidney	intestines	nerves	thymus
1	837												
1	845												
1	849												
1	859					X		X		X	X		
1	860			X		X				X			
1	865												
1	874												
1	875												
1	876												
1	911												
1	926			X					X				
1	946												
1	958												
1	825												
1	895												
1	803												
1	826												
1	847												
1	858												
1	878												
1	882												
1	885												
1	899												
1	901 918												
1	922												
1	923												
1	938												
1	942												
1	956												
2	804					X		X			X		
2	812		X		X	X		X					
2	822		X		X	- 1		4 L			X		
2	840		4.		X			X		X	4.		
2	868			X				- 1	X				

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2	908	X		X	X		X	X			
2	912			X	X		X	X			
2	913				11		11				
2	917		X								
2	920										
2	925	X		X							
2	950			X	X						
2	953	X		X	X	X		X			
2	955									X	
2	807				X		X		X	X	
2	813			X			X	X	X		
2	814										
2	828										
2	831							X			
2	836	X		X	X		X				
2	838			X	X		X	X			
2	853	X	X	X	X		X	X			
2	863			X	X		X		X		
2	892			X	X		X				
2	897				X						
2	909				X			X			
2	930			X	X			X			X
2	940			X	X						
2	954			X	X		X	X	X		
3	811										
3	827										
3	829										
3	850										
3	854										
3	881										
3	898										
3	907										
3	910										
3	921										
3	924										
3	941								-	-	
3	808										
3	809									-	
3	821									-	
3	830									-	
3	833										

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3	852						
3	855						
3	861						
3	888						
3	889						
3	900						
3	902						
3	914						
3	936						
3	960						

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Study Type	Safety									
Pertaining to	ALL									
Study Purpose	To demonstrate safety under field conditions.									
Product Administration	One dose administered <i>in ovo</i> (IO) at days 18-19 of embryonation									
	or subcutaneously (SC) at hatch.									
Study Animals	Approximately 277,257 commercial broilers:									
	Site A: Vaccinates: 39,000, Controls: 39,000									
	Site B: Vaccinates: 56,200, Controls: 56,200									
	Site C: Vaccinates: 21,920, Controls: 21,937									
	Site D: Vaccinates: 21,500, Controls: 21,500									
Challenge Description	Not applicable (NA)									
Interval observed after	Not applicable. Daily mortality rates determined through 60 days									
challenge	of age.									
Results										
	D	a:	D .	Percent	Total	Percent	Condemnation			
	Description	Site	Route	Hatchability	Placed	Mortality	Rates (%)			
		A B	IO IO	82.4 85.2	39,000 56,200	5.4	0.43			
	Vaccinates	С	SC	NA	21,920	3.5	0.58			
		D	SC	NA	21,500	1.4	0.65			
		A	IO	85.4	39,000	4.6	0.39			
	Controls	В	IO	85.1	56,200	4.2	0.09			
		C	SC	NA	21,937	2.9	0.58			
		D	SC	NA	21,500	2.3	0.72			
USDA Approval Date	JSDA Approval Date December 1, 2020									

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