Example Individual Study Summaries

Efficacy Studies

Example 14: field safety—poultry

Example 16: field safety—with explanatory note

Example 15: field safety—with events affirmed by licensee to have cause other than vaccination

Highlighted sections are OPTIONAL. All other data elements are required.

Updated: April 8, 2020

Example 1:

Study Type	Efficacy											
Pertaining to	Bovine Virus Diarrhea Virus, Type 1 (BVDV1)											
Study Purpose	Demonstrate effectiveness in pregnant animals against											
	persistently infected calves One dose administered subcutaneously one month prior to											
Product Administration		One dose administered subcutaneously one month prior to preeding.										
	breeding.											
Study Animals		20 vaccinated and 19 control Angus crossbred heifers, 16-18										
	months of age at first vaccination, seronegative (titer >2) to											
	BVDV1 and BVDV2.											
Challenge Description	BVDV1a Singer strain administered 230 days after vaccination											
	(~169-194 days of gestation)											
Observation interval	Calves examined 50 days after challenge											
after last treatment		An animal was considered affected by the challenge if the calf										
Results												
				_	oody tite	r ≥2 OR BV	′עי					
	could be 1	solated 1	from the cal	Ι.								
	10/10 con	tuola ona	1.6/20 wasai	notos xx	ana affac	to d						
	19/19 con	trois and	d 6/20 vacci	nates w	ere arrec	tea.						
	Control Virus Antibody Vacc Virus Antibody											
	ID	viius	Annoug	ID	viius	Allibody						
	1	+	<2	1	_	<2						
	2	+	<2	_	<2							
	3	+	<2	3	+	<2						
	4	+	<2	4	_	<2						
	5	+	<2	5	-	<2						
	6	+	<2	6	_	8						
	7	+	<2	7	_	<2						
	8	+	<2	8	+	<2						
	9	+	<2	9	-	<2						
	10	+	<2	10	-	<2						
	11	+	<2	11	-	<2						
	12	+	<2	12	-	<2						
	13	+	<2	13	+	<2						
	14	+	<2	14	+	<2						
	15	+	<2	15	_	<2						
	16	+	<2	16	-	<2						
	17	+	<2	17	_	<2						
	18	+	<2	18	-	32						
	19	+	<2	19	-	<2						
				20	-	<2						
USDA Approval Date	mm/dd/yy	ууу										

Example 2:

Study Type Efficacy Pertaining to Leptospira pomona Leptospira pomona Product Administration Two doses were administered subcutaneously (SC) or intramuscular (IM) at 21-day intervals. Study Animals 3-month old calves were vaccinated twice (SC or IM) 21 da apart . Animals were seronegative to leptospiral serovars canicola, grippotyphosa, hardjo, icterohaemorrhagiae, and pomona. Twelve animals each were vaccinated by the SC ar route; 12 animals served as controls. All animals were challenged with L. pomona 14 days after the last vaccination. Urine cultures were collected every two days for 10 days. Kidney and liver cultures were performed 14 days after challenge. Animals are considered affected by challenge if L. pomona to be recovered from any of the urine cultures or tissue cultures. Urine Culture Results: Controls: 8/12 (66.7%) positive IM Vaccinates: 0/12 (0%) SC Vaccinates: 0/12 (0%) SC Vaccinates: 0/12 (0%) Urine Culture Data Control Day 2 Day 4 Day 6 Day 8 Day ID 1	nd IM										
Product Administration	nd IM										
Two doses were administered subcutaneously (SC) or intramuscular (IM) at 21-day intervals. Study Animals 3-month old calves were vaccinated twice (SC or IM) 21 da apart . Animals were seronegative to leptospiral serovars canicola, grippotyphosa, hardjo, icterohaemorrhagiae, and pomona. Twelve animals each were vaccinated by the SC ar route; 12 animals served as controls. Challenge Description All animals were challenged with L. pomona 14 days after that treatment Urine cultures were collected every two days for 10 days. Kidney and liver cultures were performed 14 days after challenge. Results Animals are considered affected by challenge if L. pomona of the urine cultures or tissue cultures. Urine Culture Results: Controls: 8/12 (66.7%) positive IM Vaccinates: 0/12 (0%) SC Vaccinates: 0/12 (0%) Urine Culture Data Control Day 2 Day 4 Day 6 Day 8 Day ID 1	nd IM										
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SC Vaccinates: 0/12 (0%) Urine Culture Data Control Day 2 Day 4 Day 6 Day 8 Day ID 1											
Urine Culture Data Control Day 2 Day 4 Day 6 Day 8 Day 1D											
Control Day 2 Day 4 Day 6 Day 8 Day 1D											
Control Day 2 Day 4 Day 6 Day 8 Day 1D											
ID	1.0										
1	10										
2 - + + +											
3 - +											
4 - + - +											
5 + + + +	-										
6 + + + -											
7											
8											
9 - +											
10 - + + +											
11 + +											
	12 - + + - +										
All vaccinates were negative at all sampling points											
Three controls had positive kidney samples; none of the anim											
had positive liver samples.											
USDA Approval Date mm/dd/yyyy											

Example 3:

Example 3:														
Study Type	Efficacy													
Pertaining to			e, Type 2 (P											
Study Purpose	Pivotal ef	ficacy ag	gainst porcin	e circov	irus-asso	ociated diseas	se							
Product Administration	One dose	adminis	tered intramu	iscularl	y									
Study Animals	Caesarian	-derived	, colostrum o	deprived	d piglets	randomly div	vided							
	into 20 va	into 20 vaccinates and 20 controls. Piglets were 12 days of age at the time of vaccination.												
	the time o	f vaccin	ation.											
Challenge Description						tion with PC	V2a.							
Observation interval	Lymphoid tissues examined 34 days after challenge													
after last treatment	D' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
Results	Pigs were evaluated for the presence of PCV2 in lymphoid													
	tissues, and pathologic changes in lymph nodes (lymphoid													
	depletion). Tissues examined included tracheobronchial,													
	mesenteric and sub-iliac lymph nodes, as well as the tonsil.													
	Results: PCV2 was recovered from lymphoid tissues of 3/20													
				_	• 1	id depletion v								
	observed in lymph nodes of 3/20 vaccinates and 16/20 controls.													
	Control	Virus	Lymphoid Depletion	Vacc ID	Virus	Lymphoid								
	ID			Depletion										
	1	+	+	1	-	-								
	2	+	+	2	-	-								
	3	-	-	3	+	+								
	4	+	+	4	-	-								
	5	+	+	5	-	-								
	6	+	+	6	-	-								
	7	+	+	7	-	-								
	8	+	+	8	+	+								
	9	+	+	9	-	-								
	10	-	-	10	-	-								
	11	+	+	11	-	-								
	12	-	-	12	-	-								
	13	+	+	13	+	+								
	14	+	+	14	-	-								
	15	+	+	15	-	-								
	16	+	+	16	-	-								
	17	+	+	17	-	-								
	18	+	+	18	-	-								
	19	+	+	19	ı	-								
	20	+	-	20	-	-								
USDA Approval Date	mm/dd/yy	ууу												

Example 4:

Example 4:													
Study Type	Efficacy												
Pertaining to	Наетор	philus para	suis										
Study Purpose			lasser's disea	se									
Product Administration			ed intramuscul										
Study Animals				ed into 21 vac	cinates and	20							
Study Allillais	controls		ildollily divid	eu iiio 21 vac	ciliales allu	1 20							
Cl II D			d 21 day		a4i a.ai4la 1	7.7							
Challenge Description			enged 21 day	s after vaccina	ation with I	7.							
	parasui		1 1										
Observation interval	Observe	d daily for 2	1 days										
after last treatment													
Results	Results:												
	Mortality after Challenge												
		Vaccinates		5/18									
		Controls		13/20									
		Controls		13/20									
		Clinical	Signs of Glasse	r's Disease after	Challenge								
				ontrol ontrol									
		Arthritis		5 of 20									
		Pneumonia	3	<mark>6</mark>									
		Pericarditis	O	<mark>2</mark>									
		Pleuritis	O	<mark>6</mark>									
		T		l Animals	,								
	ID	Arthritis	Pneumonia	Pericarditis	Pleuritis	Death							
	1	Yes	No	No	No	Yes							
	2 No		Vac	NT.	Yes	Yes							
			Yes	No									
	3	No	No No	No No	No	No							
	3					No Yes							
	3	No	No	No	No								
	3	No Yes	No Yes	No Yes	No Yes	Yes							
	3 4 5 6 7	No Yes No	No Yes No	No Yes No	No Yes No	Yes No							
	3 4 5 6	No Yes No No	No Yes No No	No Yes No No	No Yes No No	Yes No No							
	3 4 5 6 7	No Yes No No	No Yes No No	No Yes No No	No Yes No No	Yes No No Yes							
	3 4 5 6 7 8	No Yes No No No	No Yes No No No Yes	No Yes No No No Yes	No Yes No No No Yes	Yes No No Yes Yes							
	3 4 5 6 7 8 9	No Yes No No No No Yes	No Yes No No No Yes No	No Yes No No No Yes No	No Yes No No No Yes No	Yes No No Yes Yes No							
	3 4 5 6 7 8 9	No Yes No No No No Yes No	No Yes No No No Yes No No Yes No	No Yes No No No Yes No No Yes No	No Yes No No No Yes No No Yes No	Yes No No Yes Yes No Yes							
	3 4 5 6 7 8 9 10 11	No Yes No No No No Yes No No Yes No	No Yes No No No Yes No No Yes No No No	No Yes No No No Yes No Yes No No No	No Yes No No No Yes No No Yes No No	Yes No No Yes Yes No Yes Yes Yes							
	3 4 5 6 7 8 9 10 11 12 13	No Yes No No No No No Yes No No Yes No No No	No Yes No No No Yes No No Yes No No Yes Yes	No Yes No No No Yes No Yes No No Yes Yes	No Yes No No No Yes No No Yes No No Yes	Yes No No Yes Yes No Yes Yes Yes Yes							
	3 4 5 6 7 8 9 10 11 12 13 14	No Yes No No No No Yes No No Yes No No No Yes No No Yes	No Yes No No No Yes No No Yes No No No No No No No Yes No No No No No	No Yes No No No Yes No Yes No No No	No Yes No No No Yes No No No No No No No No No Yes No No No Yes No	Yes No No Yes Yes No Yes Yes Yes Yes Yes Yos Yes							
	3 4 5 6 7 8 9 10 11 12 13 14 15	No Yes No No No No No Yes No	No Yes No No No Yes No No No No No No No Yes No Yes No Yes No Yes	No Yes No No No Yes No No No No No No No No No Yes No No No No No No No No	No Yes No No No Yes No No No Yes No No Yes No Yes No Yes No Yes	Yes No No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes							
	3 4 5 6 7 8 9 10 11 12 13 14 15	No Yes No No No No No Yes No Yes No No No No No No No No	No Yes No Yes No No Yes No	No Yes No No No Yes No No No No No No No No Yes No No No No No No No No	No Yes No No No Yes No No No No Yes No No Yes No	Yes No No Yes Yes No Yes Yes Yes Yes Yes No Yes No You							
	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	No Yes No No No No Yes No	No Yes No No No Yes No No No Yes No No Yes No No Yes No No No No Yes No No No Yes No No	No Yes No No No Yes No	No Yes No No No Yes No No No No Yes No No Yes No No No No No Yes No No No Yes No No	Yes No No Yes Yes No Yes Yes Yes Yes Yes No Yes No No No							
	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	No Yes No	No Yes No No No No Yes No No No Yes No No Yes No No Yes No No Yes No Yes No Yes	No Yes No No No Yes No No No No No No No Yes No	No Yes No No No No Yes No No No Yes No No Yes No No Yes No No Yes No Yes No Yes	Yes No No Yes Yes No Yes Yes Yes Yes No Yes No Yes No Yes No Yes							
	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	No Yes No No No No Yes No	No Yes No No No Yes No No No Yes No No Yes No No Yes No No No No Yes No No No Yes No No	No Yes No No No Yes No	No Yes No No No Yes No No No No Yes No No Yes No No No No No Yes No No No Yes No No	Yes No No Yes Yes No Yes Yes Yes Yes Yes No Yes No No No							

	Vaccinated Animals										
	ID	Arthritis	Pneumonia	Pericarditis	Pleuritis	Death					
	1	No	No	No	No	No					
	2	Yes	No	No	No	No					
	3	No	No	No	No	Yes					
	4	No	Yes	No	No	Yes					
	5	No	No	No	No	No					
	6	Yes	No	No	No	No					
	7	No	No	No	No	No					
	8	No	Yes	No	No	Yes					
	9	No	No	No	No	No					
	10	No	No	No	No	No					
	11	No	No	No	No	No					
	12	No	No	No	No	No					
	13	No	No	No	No	No					
	14	Yes	No	No	No	Yes					
	15	Yes	No	No	No	No					
	16	No	No	No	No	No					
	17	No	No	No	No	No					
	18	No	No	No	No	No					
	19	No	Yes	No	No	Yes					
JSDA Approval Date	mm/dd/y	уууу									

Example 5:

Study Type	Efficacy										
Pertaining to	Mycoplasma hyopneumoniae										
Study Purpose	Efficacy against respiratory disease										
Product	2 doses, given intramuscularly, 2 weeks apart										
Administration (# doses, route of administration, interval between doses)											
Study Animals (species, age at first product administration, number per treatment group)	Commercial pigs, 3 weeks of age. 32 vaccinates and 31 controls										
Challenge Description (agent, route of administration, interval between last product dose and challenge)	Mycoplasma hyopneumoniae, given 3 weeks after final vaccination										
Interval observed after	Lungs evaluated 4 weeks after challenge										
challenge											
Results	The percent of the lung mass that was abnormal (consolidated) was calculated for every animal. 5-number summary for lung consolidation (%) Treatment Minimum Q ₁ Median Q ₃ Maximum										
	Controls 4.4 7.5 13.2 18.0 26.3 Vaccinates 0.0 2.0 5.3 10.5 20.8 Raw data shown on attached page.										
USDA Approval Date	mm/dd/yyyy										

Lung consolidation scores (%), in order of rank:

Vaccinate	Control
0.1	0
0.1	0.3
0.1	1.0
0.1	2.3
0.1	2.5
0.2	3.0
0.3	3.1
0.3	4.5
0.3	6.7
0.5	8.2
0.5	8.2
0.6	10.8
0.7	11.0
1.1	11.3
1.3	12.1
1.8	12.5
1.9	14.1
2.0	14.8
5.3	15.1
5.7	18.0
10.2	20.1
10.7	23.2
10.9	24.8
33.3	35.0

Example 6:

Study Type	Efficacy
Pertaining to	Herpesvirus, Bovine (IBR)
Study Purpose	Efficacy against respiratory disease
Product Administration	
Study Animals	
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. Study data, however, are no longer available.
USDA Approval Date	May 21, 1962

Example 7:

Study Type	Efficacy							
Pertaining to	Herpesvirus, bovine (IBR)							
Study Purpose	Demonstrate effectiveness against infectious bovine							
	rhinotracheitis							
Product Administration	Single dose, administered subcutaneously							
Study Animals	Forty calves, seronegative to IBR, 3 months of age, 20							
	vaccinates and 20 controls							
Challenge Description	IBR virus administered 14 days after vaccination							
Interval observed after	Calves observed daily for 14 days after challenge							
challenge								
Results	Animals were considered affected by the challenge if they had a							
	temperature ≥104.0 on more than one day AND demonstrated at							
	least one clinical sign (depression, dyspnea, or purulent nasal							
	discharge) on at least one day.							
	Totals:							
	16/18 controls affected							
	0/17 vaccinates affected							
	Raw data:							
	See attached.							
USDA Approval Date	mm/dd/yyyy							

		Rectal	Temper	atures			- 1				I	I	I				
Contro																	
Calf	Day 62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	Classification
2245	101.9	101.2	101.2	102.2	104.8	104.5	104.7	102.5	103.1	104.1	101.2	100.7	100.5	102	101.3	101	Positive
2267	101.2	101.6	101.7	104.6	104.9	103.1	104	103.2	101.6	101	101.6	100.3	100.9	100.6	101	100.4	Positive
2273	101.9	101.5	101.9	103.6	105	104.9	104.9	103	101.6	101.8	100.7	101.7	101.1	101.1	101	100.9	Positive
2274	101.3	101.9	101.2	103.1	103.5	106.2	105.4	104.2	101	103.9	101.2	101.8	101.2	101.1	101	102.6	Positive
2291	101.8	101	101.4	103.3	104.2	104.6	104	103	102.3	101.7	100.6	101.5	100.8	101.1	101.2	100.4	Positive
2298	101.2	102.7	102	102.3	103.4	104	104	102.4	103.5	102.7	101.9	101	101.2	101.6	101.4	101.8	Positive
2302	101.4	101.4	101.6	101.6	102	103.8	103.7	103.3	102	101.5	101.5	101.2	100.7	101.6	101.6	101.7	Negative
2310	101.6	102	101.7	104	103.3	105.4	104.8	103.7	103.3	104.1	103.5	101.5	100.7	101.7	101.2	101.4	Positive
2318	101.8	101.8	101.6	104.8	106.1	106	105.9	105	102.6	103.2	103.3	101.6	100.6	100.7	101.6	101.5	Positive
2320	102.3	101.2	102.2	104.1	103.4	104.1	103.5	103.7	103	103.1	103.3	101.9	101.7	102.8	103.4	104.2	Positive
2323	100.5	101.2	100.6	103.3	104.4	104.9	104.7	103.9	103.6	102.1	101.7	100.7	100.5	101	101.6	102.3	Positive
2326	101.3	101.9	101	103.2	103.3	103.7	104	101.6	101.4	102.2	101.4	101.6	101	101.1	101.3	101.4	Negative
2329	102.4	103.4	101.2	103.9	104.5	104.1	103.5	103.2	103.2	103.2	100.6	102.2	100.1	100.7	100.9	102.1	Positive
2344	102.1	102	100.6	104.1	103.4	104.2	103.5	104	102.1	101.3	100.6	101	100.6	100.5	101.5	101.4	Positive
2345	101	102.1	101.1	102.9	104	104.4	104.3	102.1	101.1	101	100.6	101.3	101.1	101.1	101	101	Positive
2348	101.5	102.5	101.4	104.6	104	102.9	102.7	102.6	103	102	102.3	101.3	101.5	101.4	101.3	102.1	Positive
2350	101.2	101.6	103	103.8	103.9	104.2	104.2	103.8	103	102.9	102.7	101.3	101.7	101.1	101.3	101.8	Positive
2352	101.5	101.4	101.2	102.5	104.2	103.5	104.5	102.8	102.7	101.4	101.1	100.6	101.1	100.6	101.7	101.4	Positive
Vaccin	ates																
2256	100.9	102.3	102.2	103.2	102.6	103.9	103.9	102.9	101.7	102.3	102.7	101.2	102.1	101.6	101.7	101.9	Negative
2265	101	101.8	101.4	101.8	101.4	102.4	104.1	103.8	101.3	101.4	101.6	101.8	101.2	101.6	101.7	101.8	Negative
2281	101.1	101.4	100.9	100.9	102.8	101.3	101.1	101	100.7	101.5	101.1	101	101.3	100.5	101.5	101.7	Negative
2282	100.7	101.7	101	101.7	102.7	102.2	103.9	104.6	103.9	101.3	100.8	101.1	100.8	101.1	100.8	100.3	Negative
2283	101.1	101.1	101.4	102.4	102.8	102.3	102.3	103.9	103.8	101.6	101.3	101.6	101.1	101.3	101.6	101.8	Negative
2284	101.4	101.3	101.5	101.4	102.6	102.5	102	101.6	101.8	101.3	101.6	101.6	101.3	101.5	101.5	101.1	Negative
2285	101.5	101.6	101.5	101.4	103.5	103.4	103.8	103.7	101.2	101.5	101.9	102.4	101.9	101.8	101.4	102	Negative
2286	101.8	101.4	101	103.6	104	103.9	103.8	101.6	101.9	102.4	102	101.7	101.4	101.7	101.6	102.1	Negative
2287	101.3	101.8	101.3	103.1	104.4	103.8	103	101.5	101.3	101.6	101.7	101.2	101.6	101.6	102.2	101.7	Negative
2290	101.1	101.6	102	102.3	102.4	101.4	101.7	101.1	101.9	101.9	101.4	101.9	101.2	101.5	102.1	100.9	Negative
2307	101.1	101.5	101.7	101.4	102.4	101.6	101.5	101	101.4	101.2	100.3	102.1	101.5	102.1	102	101.4	Negative
2311	101.3	101.5	101.3	102.6	103.6	103.9	104.1	103.8	101.5	101.5	101.7	101	100.8	101.1	101.6	101.8	Negative
2313	101	101.2	101.3	101.9	103.1	101.6	101.6	101.5	101.5	102.2	101	101.2	101.1	100.8	101.6	101.3	Negative
2331	101.5	102	101.9	101.8	102.1	103.1	103.7	103.9	103.9	102.6	101.8	101.4	101.7	101.8	101.4	101.7	Negative
2334	100.9	102.3	102.3	103.4	101.9	101.8	101.6	101.4	101.7	101.8	100.8	101	102.3	102	101.7	101.5	Negative
2341	102.1	101.7	101.7	101.9	101.7	103.7	104.5	103.8	103.7	102.2	102.4	102.2	102.2	101.2	101.5	102.5	Negative
2346	102.3	101.5	102	102.8	104	103.5	103.1	100.7	101.2	102	101.1	101.9	102.4	104.1	101	102.7	Positive

Key to nasal discharge score:

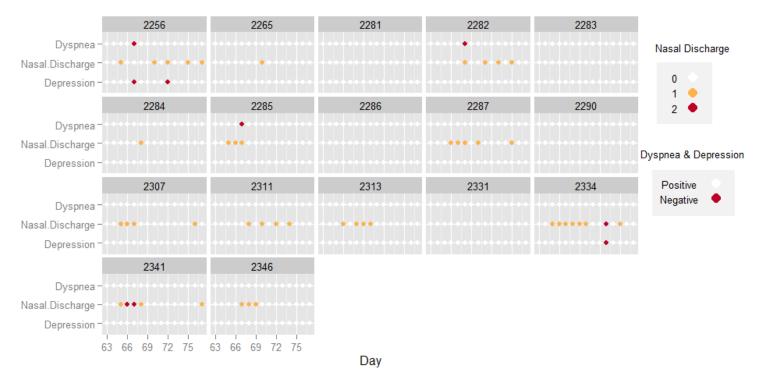
0=normal

1=serous discharge

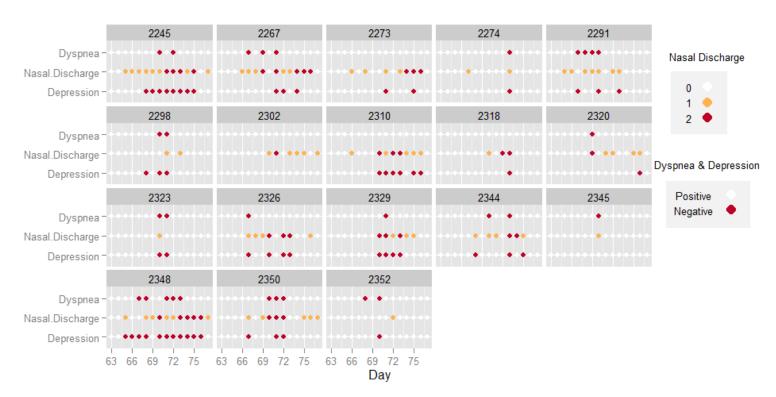
2=purulent discharge

Clinical Sign Data:

Vaccinates



Controls



Example 8:

Study Type	Efficacy										
Pertaining to	Escherichia col	i									
Study Purpose			ea due to K99 pilus-expressing <i>E</i>								
	coli	coli 2 doses, administered intramuscularly to pregnant gilts,									
Product Administration	2 doses, admini	stered intramusc	ularly to pregnant gilts,								
	approximately 3	5 and 2 weeks pr	ior to farrowing								
Study Animals	Crossbred commercial gilts, 6 months of age at breeding. 20										
	vaccinated gilts and 10 control gilts. Healthy piglets in each										
	litter were challenged.										
Challenge Description	K99+ E coli given to neonatal piglets 2 hours after first nursing										
	(colostrum)										
Interval observed after	Observed daily	for 7 days after	challenge								
challenge											
Results	Mortality in each	ch litter was asse	ssed.								
	Total pigs dead										
		d sows: 21/150	· · · · · · · · · · · · · · · · · · ·								
	From control so	ows: 48/67 (72%)	<mark>))</mark>								
	T. 1 1										
		represent piglets	dying/total piglets challenged in								
	each litter.	G (1	\neg								
	Vaccinates	Controls	_								
	0/8	1/6									
	0/7	3/8									
	0/9	4/7									
	0/5	5/7	_								
	0/8	5/7									
	0/6	5/6									
	0/9	7/8	_								
	0/8	4/4									
	0/7	6/6	_								
	0/7	8/8	_								
	1/6		_								
	1/9		_								
	1/7										
	1/8										
	2/7		_								
	2/9		_								
	2/6		_								
	3/9		<u> </u>								
	3/7		<u> </u>								
TIGDA A ID (5/8										
USDA Approval Date	mm/dd/yyyy										

Example 9:

Example 9:		
Study Type	Efficacy	
Pertaining to	Feline calicivirus	
Study Purpose	Demonstrate efficacy against feline calicivirus	
Product	Two doses, administered subcutaneously, 3 weeks apart.	
Administration		
Study Animals	20 vaccinates and 10 controls, 9-11 weeks of age.	
Challenge	Feline calicivirus was administered 3 weeks after the last vac	ecination.
Description		
Interval observed	All cats were observed daily for clinical symptoms for 2 wee	eks after
after challenge Results	challenge.	
	Animals displaying clinical signs were considered to be affected. Number affected: Vaccinates: 2/20 Controls: 10/10 Raw data: A disease severity code was created.	eted by the
	Clinical Observations	Code
	Normal	A
	Single shallow mouth ulcer	В
	Multiple distinct shallow ulcers, or an ulcer with deeper erosion	С
	Mouth ulcers with excessive erosion	D
	Mouth ulcers with bleeding and/or salivation	Е
	Mouth and/or nasal erosions with anorexia and depression	F
	Labored breathing and/or pneumonia	G
	Data table is appended to end of this summary.	
USDA Approval	mm/dd/yyyy	

						Clinical	Code By	Post-Chal	Clinical Code By Post-Challenge Day					
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13
Vacc 1	A	Ą	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 2	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 3	A	A	A	A	A	8	8	80	ပ	ပ	8	A	A	A
Vacc 4	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 5	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 6	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 7	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 8	A	A	A	A	A	A	A	۷	A	A	A	A	A	A
Vacc 9	A	A	A	A	ပ	O	ပ	o	ပ	ပ	ပ	o	8	8
Vacc 10	A	A	A	A	A	A	A	A	A	A	A	А	A	А
Vacc 11	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 12	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 13	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 14	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 15	A	Ą	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 16	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 17	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 18	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vacc 19	A	Ą	A	A	A	A	A	۷	A	A	A	A	A	A
Vacc 20	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Control 1	A	Ą	0	ш	ш	9	ŋ	ш	ш	O	0	O	C	C
Control 2	A	A	A	8	o	C	ပ	ပ	ပ	C	o	8	8	8
Control 3	A	A	A	O	ပ	0	ပ	ပ	ပ	8	8	8	A	A
Control 4	A	A	A	8	8	C	ပ	ပ	ပ	ပ	ပ	C	C	A
Control 5	A	A	A	o	ш	u.	ш	ш	ш	ш	Е	O	C	D
Control 6	A	Ą	A	8	8	8	8	8	8	8	8	8	A	A
Control 7	A	Ą	A	A	8	0	0	0	0	0	0	0	o	8
Control 8	A	Ą	A	A	ш	٥	٥	0	0	٥	o	8	A	A
Control 9	A	Ą	A	A	A	A	٧	۷	٨	٧	A	o	80	A
Control 10	٨	A	A	o	ပ	o	ပ	v	ပ	ပ	80	8	80	8

Example 10:

Study Type	Safety						
Pertaining to	ALL						
Study Purpose	Demonstrate safety of produc	t unde	r typic	cal use	cond	itions.	
Product Administration	2 Doses administered at 2 we	ek inte	ervals	by eitl	ner IM	or S(2
	route.						
Study Animals	300 pigs ranging in age from	3 wee	ks to 1	2 wee	eks at o	each o	f 3
	sites. 1/3 were vaccinated int						
	subcutaneously (SQ), and 1/3	-					
	treatment group were of mini	mum a	age rec	comm	ended	for pr	oduct
	administration.						
Challenge Description	NA						
Observation interval	Animals were observed every					•	
after last treatment	and then twice daily through	14 day	s after	r the la	ast vac	cinati	on.
Results							
	Frequency of adverse events (150 total pigs per group)	IM min age	IM others	SQ min age	SQ others	Control min age	Control others
	Injection Site Swelling (transient, ≤2 cm diameter)	0	0	21	33	0	0
	Respiratory Distress	0	0	0	1	0	0
	Pain on injection	3	0	8	3	3	0
	No adverse events	147	150	123	111	147	150
USDA Approval Date	mm/dd/yyyy						

Example 11:

Study Type	Safety							
Pertaining to	ALL							
Study Purpose	Safety in pregnant mares							
Product Administration	Two doses, administered intr	amuscularly,	at a 3-week ii	nterval				
Study Animals	Pregnant mares, >2 years of a	age: separate	groups vacci	nated at				
	each trimester of gestation. S	Similar sized g	groups in eacl	h trimester				
	were maintained as controls.							
Challenge Description	NA							
Interval observed after	Observed through birth of for	als						
challenge								
Results	Treatment	Vaccinated	Confirmed	Healthy				
			pregnant	foals				
	1 st trimester/product	200	178	169				
	1 st trimester/control 196 181 170							
	2nd trimester/product	198	*	195				
	2 nd trimester/control	190	*	185				
	3 rd trimester/product	201	*	200				
	3 rd trimester/control	196	*	196				
	*Pregnancy confirmed prior	to enrollment	in study.					
USDA Approval Date	mm/dd/yyyy							

Example 12:

Study Type	Safety
Pertaining to	ALL
Study Purpose	Demonstrate safety in pregnant gilts
Product Administration	1 dose, 5 weeks prior to farrowing
Study Animals	Pregnant crossbred gilts: 75 vaccinated and 75 controls
Challenge Description	NA
Interval observed after	Observed from vaccination through farrowing. Litter size and
challenge	health were documented.
Results	No adverse events noted in gilts. See appended page for results
	of litter evaluation.
USDA Approval Date	mm/dd/yyyy

Control group:

Animal	Live Births	Dead	Mummified	Animal	Live Births	Dead	Mummified
1	10	4	0	38	10	1	1
2	10	0	1	39	11	2	0
3	11	0	0	40	10	8	0
4	9	2	1	41	11	1	2
5	11	1	0	42	11	2	2
6	13	1	0	43	17	0	0
7	17	0	1	44	10	0	0
8	8	0	0	45	13	0	0
9	12	0	0	46	15	1	0
10	1	0	1	47	9	2	0
11	13	3	0	48	13	0	0
12	3	1	1	49	11	3	0
13	11	0	0	50	14	0	0
14	12	1	0	51	13	2	0
15	12	0	0	52	12	0	0
16	16	1	1	53	7	1	0
17	12	1	0	54	9	1	2
18	10	0	0	55	11	1	1
19	13	0	0	56	13	1	1
20	13	1	0	57	13	1	0
21	14	3	0	58	13	1	0
22	14	2	0	59	10	0	1
23	8	0	0	60	8	3	0
24	6	0	0	61	10	0	0
25	7	1	0	62	4	0	0
26	6	1	0	63	5	0	0
27	9	2	0	64	13	3	0
28	8	0	0	65	8	1	0
29	13	0	0	66	4	0	0
30	5	4	0	67	13	0	0
31	15	1	0	68	13	0	1
32	10	1	0	69	13	0	0
33	13	3	1	70	12	0	0
34	11	4	1	71	7	4	0
35	10	3	2	72	17	0	0
36	16	0	0	Total	<mark>775</mark>	<mark>83</mark>	<mark>24</mark>
37	10	3	3	Percentage	<mark>87.90%</mark>	<mark>9.40%</mark>	<mark>2.70%</mark>

Vaccinate group:

Animal	Live Births	Dead	Mummified	Animal	Live Births	Dead	Mummified
1	9	0	2	38	9	4	0
2	12	2	0	39	11	1	0
3	14	1	1	40	14	1	0
4	14	1	0	41	6	6	1
5	8	2	0	42	15	0	0
6	11	1	1	43	13	0	0
7	10	1	0	44	11	0	1
8	12	0	0	45	14	0	0
9	9	3	2	46	8	1	0
10	17	3	1	47	13	2	2
11	14	0	0	48	11	1	1
12	11	3	1	49	9	1	1
13	8	2	0	50	8	5	0
14	14	2	0	51	10	1	1
15	8	5	0	52	13	2	0
16	14	1	0	53	13	4	0
17	9	0	0	54	11	0	0
18	10	1	2	55	12	0	0
19	0	0	21	56	11	2	0
20	4	1	0	57	8	4	0
21	12	0	0	58	9	7	1
22	11	2	0	59	10	1	0
23	9	1	1	60	14	3	1
24	10	2	1	61	10	3	0
25	14	0	0	62	12	2	0
26	8	0	1	63	9	0	0
27	9	0	2	64	12	1	0
28	7	0	0	65	9	1	0
29	14	2	0	66	8	2	0
30	7	1	0	67	7	0	0
31	13	2	0	68	11	1	1
32	15	1	0	69	10	0	0
33	14	1	0	70	7	2	0
34	13	3	1	71	6	0	0
35	9	3	0	72	10	2	0
36	9	3	0	73	11	1	0
37	15	0	0	74	14	0	4

Vaccinate group, continued:

Animal	Live Births	Dead	Mummified	Animal	Live Births	Dead	Mummified
75	8	0	0	114	8	0	0
76	10	0	0	115	13	0	0
77	12	0	0	116	15	1	0
78	6	0	1	117	13	1	0
79	10	1	0	118	16	0	0
80	9	3	0	119	10	0	0
81	4	2	0	120	9	5	0
82	14	2	2	121	9	0	0
83	11	0	0	122	7	1	2
84	10	0	0	123	8	1	0
85	11	0	2	124	8	2	0
86	5	0	0	125	11	1	0
87	10	0	0	126	5	0	0
88	12	1	0	127	12	2	0
89	5	8	2	128	10	1	0
90	10	4	0	129	10	2	0
91	12	1	0	130	13	0	0
92	10	2	1	131	10	0	0
93	12	0	0	132	11	0	0
94	13	1	0	133	10	0	0
95	10	1	1	134	12	0	0
96	10	1	0	135	11	0	1
97	10	2	0	136	7	0	0
98	10	1	0	137	11	0	0
99	10	0	0	138	6	5	0
100	9	3	0	139	12	1	1
101	15	1	2	140	14	1	0
102	10	0	0	141	9	2	0
103	15	1	0	142	13	1	1
104	10	1	0	143	8	3	0
105	15	1	0	144	7	0	0
106	9	1	0	145	12	2	0
107	10	0	0	146	1	1	0
108	8	1	0	147	15	0	0
109	10	1	0	148	12	0	2
110	3	0	0	149	14	1	0
111	8	1	0	Total	<mark>1149</mark>	<mark>125</mark>	<mark>55</mark>
112	4	0	0	Percentage	<mark>85.78%</mark>	10.37%	<mark>3.85%</mark>
113	10	0	0				

Example 13:

Study Type	Efficacy
Pertaining to	Marek's Disease Virus serotype 1
Study Purpose	Demonstrate efficacy against very virulent Marek's disease
Product Administration	One dose administered subcutaneously at 1 day of age
Study Animals	Day-old chicks divided into 4 groups
	Group 1 vaccinated with test product and challenged
	Group 2 sham vaccinated and challenged (control)
	Group 3 sham vaccinated non-challenged (control)
	Group 4 vaccinated with a serotype 3 Marek's vaccine and challenged
	(control)
Challenge Description	Serotype-1 (SR-1) RB1B strain administered at 4 days post
	vaccination
Interval observed after	Observed daily for 7 weeks and then evaluated for internal lesions
challenge	
Results	Vaccinates and controls were evaluated in terms of Marek's disease clinical signs and/or grossly observable lesions per the criteria in 9 CFR 113.330(c)(4) & (5).
	Birds with clinical signs and/or observable lesions: Group 1: 5/34 Group 2: 31/34 Group 3: 0/35 Group 4: 8/33
	Requirements of 9 CFR 113.330(c)(4) & (5) were met.
	Raw data on attached page
USDA Approval Date	January 1, 2008

Raw data shown below for birds classified as positive. All other birds normal.

			Tumo	rs In								
Group/Bird	Emaciation	Locomotor/ Paralysis	Kidney	Spleen	Gonads	Breast	Liver	Intestine	Heart	Ascites	Yolk Sac Infection	Reason Not Given
Group 1/1											х	
Group 1/2		X										
Group 1/3	Х											
Group 1/4	Х			х								
Group 1/5			Х									
Group 2/1	Х											
Group 2/2		х			х							
Group 2/3		Х			Х							
Group 2/4	X		Х	X								
Group 2/5			Х	х		Х						
Group 2/6	Х		Х		Х							
Group 2/7	Х											
Group 2/8	Х		Х									
Group 2/9	Х		Х									
Group 2/10	Х											
Group 2/11	Х		Х									
Group 2/12	Х				Х							
Group 2/13	Х		Х									
Group 2/14	Х		Х		Х		Х					
Group 2/15	Х											
Group 2/16	Х											
Group 2/17		Х										
Group 2/18		Х			Х							
Group 2/19	Х				Х							
Group 2/20	Х		Х									
Group 2/21	Х											
Group 2/22					х							
Group 2/23			X				х					
Group 2/24	Х		X									
Group 2/25	Х		X									
Group 2/26												X
Group 2/27												Х
Group 2/28												Х
Group 2/29												Х
Group 2/30												Х

			Tumo									
Group/Bird	Emaciation	Locomotor/ Paralysis	Kidney	Spleen	Gonads	Breast	Liver	Intestine	Heart	Ascites	Yolk Sac Infection	Reason Not Given
Group 2/31												X
Group 4/1	Х											
Group 4/2	Х		Х									
Group 4/3								х		х		
Group 4/4			х		х	х						
Group 4/5	Х		Х				Х		Х			
Group 4/6		х										
Group 4/7												Х
Group 4/8												X

Example 14:

Study Type	Safety
Pertaining to	All fractions
Study Purpose	Field safety
Product Administration	Single dose by either the <i>in ovo</i> or subcutaneous (SQ) route.
Study Animals	Commercial layer or broilers, at 18 day-old embryos (<i>in ovo</i>) or day-old chicks (SQ). 3 independent study sites.
Challenge Description	Not applicable
Interval observed after challenge	Layer pullets were observed for 8 weeks, Broiler chicks were observed until slaughter.
Results	For illustrative purposes, below are examples of acceptable formatting, depending on

--For illustrative purposes, below are examples of acceptable formatting, depending on details of study design. They do not necessarily correspond to the design details listed above--

		Total	21 Day	%	%	%
Location	Treatment	Placed	Mortality	Mortality	Hatchability	Condemnation
1	SQ	16,400	200	1.4	N/A	0.1
1	In ovo	16,400	205	1.6	86.9	0.05
1	Control	16,400	206	1.4	87.4	0.07
2	SQ	20,000	300	1.3	N/A	0.09
2	In ovo	20,000	303	2	87.8	0.12
2	Control	20,000	312	2	85.6	0.1
3	SQ	21,000	495	2.5	N/A	0.09
3	In ovo	21,000	480	2.2	90.2	0.04
3	Control	21,000	475	1.4	86.7	0.1

N/A is not applicable

		Total	%	%	%
Location	Treatment	Placed	Mortality	Hatchability	Condemnation
1	SQ	16,400	1.4	N/A	0.1
1	In ovo	16,400	1.6	86.9	0.05
1	Control	16,400	1.4	87.4	0.07
2	SQ	20,000	1.3	N/A	0.09
2	In ovo	20,000	2	87.8	0.12
2	Control	20,000	2	85.6	0.1
3	SQ	21,000	2.5	N/A	0.09
3	In ovo	21,000	2.2	90.2	0.04
3	Control	21,000	1.4	86.7	0.1

N/A is not applicable

In ovo Route

	Number of	Mortality (%)		Condemna	ation (%)	Hatchability (%)		
Site	chickens	Vaccinates	Controls	Vaccinates	Controls	Vaccinates	Controls	
1	43,119	4.78	3.23	0.27	0.07	88	85	
2	44,600	4.14	4.66	0.20	0.37	89	88	
3	43,400	5.40	5.02	0.34	0.27	90	95	
4	90,437	1.17	1.78	0.09	0.13	91	93	

SQ Route

	Number of	Mortali	ty (%)	Condemnation (%)		
Site	chickens	Vaccinates	Controls	Vaccinates	Controls	
1	43,119	4.78	3.23	0.27	0.07	
2	44,600	4.14	4.66	0.20	0.37	
3	43,400	5.40	5.02	0.34	0.27	
4	90,437	1.17	1.78	0.09	0.13	

No adverse reactions attributable to the vaccine were recorded.

USDA Approval Date MMDDYYYY

Example 15.

Pertaining to Study Purpose Demonstrate safety of product under typical use conditions		Safety								
Demonstrate safety of product under typical use conditions		•								
Product Administration Study Animals Challenge Description Interval observed after challenge Results Maximum size of injection site reaction observed after animals (0.5 cm) (0.5 c	Stuay Purpose	Demon	strate safe	etv of pro	duct und	er tvpi	ical us	se cond	itions	
Administration Study Animals 675 cats total at 4 sites. Minimum age 8 weeks. Challenge Description NA Interval observed after challenge Animals were observed for 1 hour after each injection and then daily for 21 days. Results Maximum size of injection site reaction Injection site reactions not observed 1 200 5 7 0 188 2 200 2 8 0 190 3 200 10 6 0 184 4 75 10 9 2 53 Injection site swellings were observed after the second vaccination and all resolved be days post vaccination. VeDDRA Code Total number of all animals animals Normal 494 73.29% Aggression 2 0.30% Injection site self trauma 3 0.45% Vocalization 3 0.45% Lymphadenopathy 2 0.30%										ov IM route
Study Animals 675 cats total at 4 sites. Minimum age 8 weeks.		l Wo do	oco aarriiri	isterea iii	cramasec	alariy (at a 5	Weeki	iicei vai k	y in route
NA		675 cat	s total at 4	1 sites. Mi	nimum a	ge 8 v	veeks	_		
Description Interval observed after challenge			o total at	1 310031 1111		<u> </u>	·ccito	<u>- </u>		
Interval observed after challenge Results Maximum size of injection site reaction	0	1471								
Aggression 2 Days Code		Animals	were obs	served for	1 hour a	fter e	ach in	iection	and the	n daily for
Challenge Results Maximum size of injection site reaction Injection site reaction solobserved 1 200 5 7 0 188 2 200 2 8 0 190 3 200 10 6 0 184 4 75 10 9 2 53 Injection site swellings were observed after the second vaccination and all resolved be days post vaccination. Total number of all animals animals Normal 494 73.29% Aggression 2 0.30% Injection site self trauma 3 0.45% Vocalization 3 0.45% Lymphadenopathy 2 0.30%				, c. v.c.a . c.	ou. u			,	4114 1116	in daily lot
Normal		21 days	•							
Maximum size of injection site reaction										
Total number at site animals < 0.5 cm 0.5-1.5 cm > 1.5 cm				Maximun	n size of			Injectio	on site	
Group number at site animals < 0.5 cm 0.5-1.5 cm > 1.5 cm			Total	injection	site reacti	on		reactio	ns not	
at site animals < 0.5 cm 0.5-1.5 cm > 1.5 cm		Group						observ	ed	
1 200 5 7 0 188 2 200 2 8 0 190 3 200 10 6 0 184 4 75 10 9 2 53 Injection site swellings were observed after the second vaccination and all resolved be days post vaccination. VeDDRA Code Total number of all animals animals Normal 494 73.29% Aggression 2 0.30% Injection site self trauma 3 0.45% Vocalization 3 0.45% Lymphadenopathy 2 0.30%		1 1		< 0.5 cm	0 5 ₋ 1 5 c	m 1	5 cm			
2 200 2 8 0 190 3 200 10 6 0 184 4 75 10 9 2 53 Injection site swellings were observed after the second vaccination and all resolved be days post vaccination. Total number of all animals animals Normal 494 73.29% Aggression 2 0.30% Injection site self trauma 3 0.45% Vocalization 3 0.45% Lymphadenopathy 2 0.30%						111 / 1		1	88	
3 200 10 6 0 184 4 75 10 9 2 53 Injection site swellings were observed after the second vaccination and all resolved be days post vaccination. Total number of all animals animals Percent of all animals Normal 494 73.29% Aggression 2 0.30% Injection site self trauma 3 0.45% Vocalization 3 0.45% Lymphadenopathy 2 0.30%					•		_			
Total number of all animals										
Injection site swellings were observed after the second vaccination and all resolved by days post vaccination. Total number of all animals Normal 494 73.29% Aggression 2 0.30% Injection site self trauma 3 0.45% Vocalization 3 0.45% Lymphadenopathy 2 0.30%		-								
days post vaccination.VeDDRA CodeTotal number of all animalsNormal49473.29%Aggression20.30%Injection site self trauma30.45%Vocalization30.45%Lymphadenopathy20.30%										manahuad bu 2
Weakness 1 0.15% Injection site swelling (cellulitis) 1 0.15% Depression 33 4.90% Ataxia 2 0.30% Fever 10 1.48% Tremor 2 0.30% Injection site warmth 1 0.15%		VeDDR Norma Aggres Injectio Vocaliz Lymph Genera	RA Code Il Ission In site self the s	rauma	nı ar	umber of himals 494 2 3 3 2 2	all a 73 0. 0. 0. 0. 0. 0.	.29% 30% 45% 45% 30% 30%		
Additional observations were affirmed by study cooperator to be due to causes other than vaccination.		Depres Ataxia Fever Tremo	on site swell ssion r on site warn		is)	33 2 10 2	4. 0. 1. 0. 0. 0.	90% 30% 48% 30%		

Example 16.

Study Type	Safety							
Pertaining to	ALL							
Study Purpose	Demonstrate safety under typical field conditions							
Product Administration	One dose							
Study Animals	900 pigs, 3 months of age, at three different geographical locations							
Challenge Description		Not Applicable						
Interval observed after		Pigs were observed daily for 14 days following vaccination						
vaccination	1 1gs were observed daily for 14 days following vaccination							
Results	Numbers	Numbers of pigs by site with specific clinical observation post-						
Results	vaccinati		cerrie errin	icai obsci v	ation post			
	vaccinati	1011.						
			CA Site	GA Site	LA Site			
		Clinical Observation	N=300	N=300	N=300			
		None*	255	300	100			
		Depression	0	0	100			
		Loss of condition	2	0	35			
		Anorexia	5	0	75			
		Unthrifty	5	0	65			
		Decreased appetite	0	0	65			
		Abnormal breathing	0	0	100			
		Cough	0	0	100			
	*For "non	e"a pig had to be observed v	without clinic	cal observati	ons for the entire 14			
		e study. Observations at the				3		
	unexpecte	dly experiencing an influenz	za outbreak a	it the beginn	ing of the study.			
TIGDA A ID 4	MADDA	WWW						
USDA Approval Date	MMDD	YYYY						

Example 17:

Study Type	Efficacy
Pertaining to	Herpesvirus, Bovine (IBR)
Study Purpose	Efficacy against respiratory disease
Product Administration	
Study Animals	
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. 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.
USDA Approval Date	March 20, 2002

Example 18:

Study Type	Efficacy
Pertaining to	Equine influenza
Study Purpose	Efficacy against Ohio 08 strain of equine influenza
Product Administration	
Study Animals	
Challenge Description	
Interval observed after	
challenge	
Results	This product class allows the manufacturer to update microorganisms in this vaccine under expedited procedures to respond to emerging needs. Abbreviated data to support influenza strain updates to the product composition were evaluated by USDA-APHIS and found to be acceptable based on regulations and policies at the time of approval. Full vaccination-challenge studies may not have been required for these updates.
USDA Approval Date	March 20, 2010

Example 19: Placeholder ISS for conditionally licensed platform products

Study Type	Efficacy
Pertaining to	Porcine circovirus type 2 (PCV2)
Study Purpose	Efficacy against subtypes of PCV2 other than PCV2a
Product Administration	
Study Animals	
Challenge Description	
Interval observed after	
challenge	
Results	This product was qualified as a production platform based on demonstrated efficacy against PCV2a, as shown in the product compilation summary for Establishment 999, Code 19K5.R6. As a platform product, the manufacturer may update the PCV gene insert in this vaccine under expedited procedures to respond to emerging needs. Abbreviated data to support these updates to the product composition were evaluated by USDA-APHIS and found to be acceptable based on regulations and policies at the time of approval. Full vaccination-challenge studies may not have been required for these updates. An identifier for the gene sequence variant found in a given serial (numbered batch) of vaccine is listed on product labeling.
USDA Approval Date	January 31, 2018

Example 20: Placeholder ISS for prescription platform products

Study Type	Safety
Pertaining to	Prescription Platform Product
Study Purpose	Safety
Product Administration	Intramuscular
Study Animals	Swine
Results	This product was qualified as a prescription production platform based on demonstrated safety as shown in the Product Summary for Establishment 999, Code 1234.56.
	As a prescription platform product, the manufacturer may update the gene insert in this vaccine under expedited procedures to respond to emerging needs per Veterinary Services Memorandum 800.214. Study data to support these updates were evaluated by USDA-APHIS and found acceptable based on regulations and policies at the time of approval. Additional safety studies may not have been required for these updates. An identifier for the gene sequence found in a given serial
	(numbered batch) of vaccine is listed on the product labeling.