

SAFETY OF WART VACCINE, KILLED BACULOVIRUS VECTOR, IN CATTLE UNDER TYPICAL FIELD CONDITIONS



Cambridge Technologies has completed studies that demonstrate the safety of our conditionally-licensed Wart Vaccine, Killed Baculovirus Vector, under normal field conditions.

These studies included 960 cattle in three geographic locations:

- Site 1 (California), 240 vaccinates and 120 no-treatment controls, all 2 months old
- Site 2 (Iowa), 205 vaccinates and 32 no-treatment controls, all 14-15 months old
- Site 3 (Illinois), 243 vaccinates and 120 no-treatment controls, all 5-10 months old

At all locations, vaccinated cattle received a 4mL injection subcutaneously every two weeks for a total of three administrations.

All cattle, both vaccinates and no-treatment controls, were observed for one hour post-injection and palpated one day and approximately 14 days post each of the three injections. Daily observations of all animals continued until at least study day 42. Any animal found to have a palpable injection site reaction (ISR) at or after day 42 was observed two more weeks until full study conclusion on study day 70.

RESULTS

No serious systemic reactions related to vaccination were observed.

TABLE 1. Palpable injection site reactions, maximum size

Testing site	Animal age at enrollment	Total # animals	Treatment	# calves with ISR, by maximum size (cm)			
				No lesions	<5	5-10	>10
Site 1	2 months	240	Vaccinated	2	24	186	28
		120	No Treatment	47	36	30	7
Site 2	14-15 months	205	Vaccinated	121	22	59	3
		32	No Treatment	32	0	0	0
Site 3	5-10 months	243	Vaccinated	26	137	79	0
		120	No Treatment	117	1	3	0

TABLE 2. Calves at all locations with adverse events affirmed to have alternate etiology not caused by vaccine

VeDDRA Term	# calves affected among 687 vaccinated calves	Number affected among 273 control calves
Abrasion	1	0
Bacterial Skin Infection NOS	1	0
Conjunctivitis	2	2
Cough	169	72
Diarrhea	32	13
Dyspnea	192	98
Found Dead*	5	5
Head Shake – Ear Disorder	1	1
Injection Site Lump	533	96
Injection Site Mass NOS	3	0
Injection Site Swelling	249	70
Injection Site Inflammation	3	2
Lethargy	48	34
Limping	6	2
Otitis Media	228	113
Pain NOS	1	0
Ruminal Bloat	0	1
Scrotitis	0	1
Swelling NOS	2	0

* Deaths not attributed to vaccine



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