

Table 9 Showed serological response of experimental pigs after immunization with synthetic peptide vaccine and commercial vaccine. The sera were tested for the serum neutralization (SN) and UBI[®] FMDV VP1 EIA. The cut off value of VP1 ELISA was 0.26. The O/189 strain was the reference strain for SN test.

	No.	1 st vaccination		2 nd vaccination		2 weeks ^a		3 weeks ^a		4 weeks ^a	
		SN	VP1- ELISA	SN	VP1- ELISA	SN	VP1- ELISA	SN	VP1- ELISA	SN	VP1- ELISA
UBI FMDV Th	1	<0.24	0.118(-)	0.60	0.424(+)	2.16	3.09(+)	2.16	3.069(+)	1.80	2.948(+)
Formulation1	2	<0.24	0.113(-)	0.36	1.819(+)	2.16	3.14(+)	1.80	3.063(+)	2.16	3.001(+)
	3	<0.24	0.176(-)	0.60	1.492(+)	2.88	3.299(+)	2.76	3.174(+)	3.00	3.099(+)
	4	<0.24	0.119(-)	<0.24	1.413(+)	2.88	3.375(+)	2.52	3.322(+)	2.52	3.229(+)
Commercial	5	<0.24	0.101(-)	<0.24	0.662(+)	0.60	2.075(+)	0.72	1.686(+)	0.60	1.599(+)
vaccine	6	<0.24	0.149(-)	<0.24	0.222(-)	0.84	0.941(+)	0.60	0.858(+)	0.84	0.834(+)
	7	<0.24	0.1(-)	<0.24	0.421(+)	<0.24	0.939(+)	<0.24	0.889(+)	0.84	0.758(+)
	8	<0.24	0.098(-)	0.36	0.644(+)	1.20	0.982(+)	0.84	0.829(+)	1.20	0.826(+)
UBI FMDV Th	9	<0.24	0.138(-)	<0.24	0.098(-)	<0.24	0.088(-)	<0.24	0.09(-)	<0.24	0.092(-)
Formulation3	10	<0.24	0.089(-)	<0.24	0.106(-)	<0.24	0.107(-)	<0.24	0.109(-)	<0.24	0.099(-)
	11	<0.24	0.118(-)	<0.24	0.105(-)	<0.24	0.106(-)	<0.24	0.124(-)	0.36	0.193(-)
	12	<0.24	0.148(-)	<0.24	0.181(-)	<0.24	0.151(-)	<0.24	0.122(-)	<0.24	0.122(-)

a = After second vaccination

Table 10 Showed serological response after challenge with the field strain. The sera were tested with the serum neutralization, UBI[®] FMDV NS EIA and UBI[®] FMDV VP1 EIA. The O/189, A/Sakon Nakhon/97 and Asia 1 strains of FMDV were used as the reference viruses.

Group	No.	Serum Neutralization test			ELISA	
		Type O	Type A	Type Asia1	3B ELISA Cut off 0.342	VP1 Cut off 0.26
UBI FMDV Th	1	1.8	<0.24	1.2	0.345 (+)	2.932(+)
Formulation1	2	1.8	<0.24	0.36	0.107(-)	2.89(+)
	3	2.64	<0.24	1.08	0.146(-)	2.775(+)
	4	1.8	<0.24	0.48	0.171(-)	3.015(+)
	5	1.2	1.8	0.84	0.137(-)	2.137(+)
Commercial vaccine	6	1.2	0.96	1.56	0.169(-)	0.695(+)
	7	1.68	2.16	1.92	0.111(-)	1.177(+)
	8	1.68	1.68	1.8	0.145(-)	1.557(+)
UBI FMDV Th	9	<0.24	<0.24	0.36	0.091(-)	0.09(-)
Formulation3	10	<0.24	<0.24	0.36	0.101(-)	0.107(-)
	11	<0.24	<0.24	<0.24	0.147(-)	0.122(-)
	12	<0.24	<0.24	0.48	0.127(-)	0.139(-)