



FMD Vaccine Matching Strain Differentiation Report

Lab Reference WRL batch Number:	WRLFMD/	/2021/00010
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Date Received: 05/07/2021
Country of Origin*: KENYA

This testing has now been completed in respect of the samples you submitted and the details are as attached.

This is version 2 of the report as O1 Campos and SAT1 RHO vaccines were missing from the original.

Results Approved By:

Sender Details:



Date: 20/12/2011

Official Stamp:



NOTES:

- 1. Vaccine efficacy is influenced by vaccine potency, antigenic match and vaccination regime. Therefore, it is possible that a poor antigenic match may be compensated by high potency vaccines and by administering more than one vaccine dose at suitable intervals. Thus, a vaccine with a weak antigenic match to a field isolate, as determined by serology, may nevertheless afford some protection if it is of sufficiently high potency and is administered under a regime to maximise host antibody responses (Brehm, 2008).
- 2. Vaccine matching data generated in this report only considers antibody responses in cattle after a single vaccination (typically 21 days after vaccination). The long-term performance of FMD vaccines after a second or multiple dose of vaccine should be monitored using post-vaccination serological testing.

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by email (reflabsfeedback@pirbright.ac.uk).

Batch: IAHB/2021/00627

FMD VACCINE MATCHING STRAIN DIFFERENTIATION REPORT

Lab Reference WRL Batch Number: WRLFMD/2021/00010

Report Date: 20/12/2021

Interpretation Of Results

For each field isolate the r₁ value is shown followed by the heterologous neutralisation titre (r₁-value / titre)

The r_1 values shown below, represent the one-way serological match between vaccine strain and field isolate, calculated from the comparative reactivity of an antiserum, raised against the vaccine in question, to the vaccine virus and the field isolate.

r₁ greater than 0.3 - suggest that there is a close antigenic relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

r₁ less than 0.3 - suggest that the field isolate is antigenically different to the vaccine strain. Where there is no alternative, the use of this vaccine should carefully consider vaccine potency, the possibility to use additional booster doses and monitoring of vaccinated animals for heterologous responses.

0 = no neutralisation for the field virus was observed at a virus dose of a 100TCID₅₀

Heterologous neutralisation titres for the field isolates are included as an indicator of protection.

NOTE: Vaccines from different manufactures may perform differently although the vaccine strains are the same.

2dmVNT r ₁ RESULTS										
	Vaccines:									
Field Isolates:	A Eri 98	A GVII 2015	A IRN/2005	A Sau 95 (2)	A/TUR/20/2006	A22 IRQ	O 3039	O 5911 PanAsia 2		
A/KEN/10/2021	0.11 / 1.71	0.00 / 0.00	0.08 / 1.48	0.25 / 1.82	0.08 / 1.04	0.27 / 2.11				
O/KEN/10/2020							0.45 / 1.79	0.34 / 2.01		
O/KEN/6/2021							0.74 / 2.01	0.43 / 2.11		
SAT 1/KEN/3/2020					*		· ·			
SAT 1/KEN/9/2020					·					

FMD VACCINE MATCHING STRAIN DIFFERENTIATION REPORT

	2dmVNT r ₁ RESULTS							
	Vaccines:							
Field Isolates:	O Manisa	O TUR/5/09	O1 Campos	SAT1 RHO				
A/KEN/10/2021	·							
O/KEN/10/2020	0.40 / 2.04	0.50 / 1.98	0.35 / 2.35					
O/KEN/6/2021	0.74 / 2.31	0.85 / 2.21	0.51 / 2.51					
SAT 1/KEN/3/2020				1.48 / 2.46				
SAT 1/KEN/9/2020				0.43 / 1.88				