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FMD VACCINE MATCHING STRAIN DIFFERENTIATION REPORT

Lab Reference WRL Batch Number: WRLFMD/2020/00002 Report Date: 26/08/2020

Interpretation Of Results

For each field isolate the r_1 value is shown followed by the heterologous neutralisation titre (r_1 -value / titre)

The r₁ 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 r₁ RESULTS

	Vaccines:						
Field Isolates:	A Iran 2005	A TUR 20/06	A22 IRQ	Asia1 Shamir	O 3039	O Manisa	O Tur 5/09
A/PAK/1/2020	0.14 / 1.64	0.17 / 1.11	0.37 / 1.90				
A/PAK/2/2020	0.07 / 1.30	0.00 / 0.00	0.09 / 1.26				
A/PAK/30/2016	0.60 / 2.26	0.50 / 1.58	0.47 / 2.00				
A/PAK/73/2019	0.93 / 2.45	0.23 / 1.25	0.68 / 2.16				
ASIA 1/PAK/32/2016				0.18 / 1.72			
ASIA 1/PAK/75/2019				0.50 / 2.16			
O/PAK/3/2020					0.55 / 1.71	0.40 / 1.94	0.98 / 2.10
O/PAK/46/2019					0.37 / 1.54	0.40 / 1.94	0.54 / 1.84