



## **FMD Vaccine Matching Strain Differentiation Report**

Lab Reference WRL batch Number:	WRLFMD/2021/00004
Sender Details:	
Date Received:	01/03/2021
Country of Origin*:	ISRAEL
This testing has now been completed in attached.	respect of the samples you submitted and the details are as
Results Approved By:	Official Stamp:
Date:	
NOTES:	
that a poor antigenic match may be cor vaccine dose at suitable intervals. Thus, serology, may nevertheless afford some administered under a regime to maximi 2. Vaccine matching data generated in t	ine potency, antigenic match and vaccination regime. Therefore, it is possible impensated by high potency vaccines and by administering more than one a vaccine with a weak antigenic match to a field isolate, as determined by protection if it is of sufficiently high potency and is ise host antibody responses (Brehm, 2008). This report only considers antibody responses in cattle after a single vaccination to long-term performance of FMD vaccines after a second or multiple dose of t-vaccination serological testing.
To help us improve the quality of our se	ervice, please send any suggestions or requests to the Reference

\* Data supplied by the customer Batch: IAHB/2021/00182

Laboratory by email (reflabsfeedback@pirbright.ac.uk).

## FMD VACCINE MATCHING STRAIN DIFFERENTIATION REPORT

Lab Reference WRL Batch Number: WRLFMD/2021/00004 Report Date: 17/05/2021

## **Interpretation Of Results**

For each field isolate the r<sub>1</sub> value is shown followed by the heterologous neutralisation titre (r<sub>1</sub>-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.

 $r_1$  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.

 $r_1$  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 100TCID<sub>50</sub>

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 <sub>1</sub> RESULTS		
Vaccines:		
Field Isolates: O 3039 O Manisa O Tur 5/09 O1 Campos		
O/ISR/1/2021 0.35 / 1.63 0.36 / 1.92 0.85 / 2.21 0.52 / 2.57		
O/ISR/5/2021 0.48 / 1.77 0.46 / 2.02 1.00 / 2.34 0.76 / 2.73		

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