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FMD Vaccine Matching Strain Differentiation Report

Lab Reference WRL Batch Number: WRLFMD/2009/00015
Sender Details: [redacted]

Date Received: 16th March 2009
Country of Origin: Yeman
Date Reported: 15th of August 2009

Results Approved By: [redacted]

Official Stamp:

Dr JEF HAMMOND
HEAD: Vesicular
Reference Laboratories
Institute For Animal Health
Pirbright Laboratory

Date: 18/9/09

[redacted]

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.byrom@bbsrc.ac.uk)

Report no:	VNT				LPBE					
Field Isolate:	VNT	O Manisa	O Bfs	O Ind R2/75	ELISA	O 4174	O BFS 1860	O 4625	O 3039	O Manisa
O Yem 5/2009	mean	0.08	0.15	>0.63	mean	0.17	0.08	0.71	0.50	0.44
O Yem 42/2009	mean	0.04	0.05	0.65	mean	0.18	0.18	0.88	0.57	0.44
O Yem 56/2009	mean	0.21	0.36	>1.0	mean	0.25	0.17	0.71	0.84	0.71

Interpretation of Results

In the case of Virus Neutralisation Test (VNT):

$r_1 = \geq 0.3$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.
$r_1 = < 0.3$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect

In the case of Liquid Phase Blocking Elisa (LPBE):

$r_1 = 0.4\text{-}1.0$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.
$r_1 = 0.2\text{-}0.39$, Suggests that the field isolate is antigenically related to the vaccine strain. The vaccine strain might be suitable for use if no closer match can be found provided that a potent vaccine is used and animals are preferably immunised more than once.
$r_1 = <0.2$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect