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FMD Vaccine Matching Strain Differentiation Report

Lab Reference WRL Batch Number: WRLFMD/2010/00002
Sender Details: [redacted]

Date Received: 20th January 2010
Country of Origin: Eritrea
Date Reported: 5th May 2010

Results Approved By: [redacted]

Official Stamp: [redacted]

Date: 5th May 2010

[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.wilson@bbsrc.ac.uk)

Report no:	VNT									LPBE				
Vaccine: / Field Isolate:	VNT	A Eri 3/98	A Ind 17/82	A Irn87	A Irn96	A Irn99	A22 Irq	A May97	A Sau 41/91	A Tur06	ELISA	A22 Irq 24/64	A Eritrea	A Irn 87	A Irn 99
A Eri 1/2006	Mean	0.35	0.15	0.11	0.09	0.10	0.04	0.11	0.08	0.14	Mean	DNT	0.35	DNT	DNT
A Eri 4/2007	Mean	0.31	0.18	0.10	0.04	0.13	0.08	0.09	0.10	0.18	Mean	DNT	0.38	DNT	DNT
A Eri 1/2008	Mean	0.23	0.23	0.12	0.05	0.05	0.04	0.07	0.09	<0.08	Mean	DNT	0.69	DNT	DNT
A Eri 16/2009	Mean	0.30	0.14	0.10	0.05	0.10	0.05	0.08	0.08	0.13	Mean	DNT	≥0.75	DNT	DNT
A Eri 40/2009	Mean	0.13	0.10	0.04	0.06	0.04	0.04	0.07	0.04	>0.09	Mean	DNT	0.18	DNT	DNT

Interpretation of Results

In the case of Virus Neutralisation Test (VNT):

r_1 = ≥ 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.
ND = Not done.

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

r_1 = 0.4-1.0. 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 = 0.2-0.39, 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.
DNT = Did not trap.
ND = Not done