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FAX TRANSMISSION

TO: [REDACTED]

FROM: [REDACTED]

DATE: 7.4.2006

FAX NO: [REDACTED]

PAGES: 2

RE: Strain differentiation
results

Dear [REDACTED]

Strain differentiation results for serotype A FMD virus isolates received from Saudi Arabia on 7th January 2006.

The following r_1 values were recently obtained by ELISA and VNT at the WRL.

r_1 Values by ELISA						
Ref. No	A22	A IRN 96	A MAY 97	A 4164	A 5925	A SAU 95
A SAU 15/05	>0.88	Not tested	0.17	>0.89	0.50	>1.0
A SAU 16/05	>0.88	Not tested	0.15	>1.0	0.58	>1.0
r_1 Values by VNT						
A SAU 15/05	0.28	0.12	0.16	Not tested	Not tested	0.35
A SAU 16/05	0.25	0.12	0.17	Not tested	Not tested	0.39

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Interpretation of r_1 values

In the case of ELISA:

$r_1 = 0.4-1.0$. 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

In the case of neutralisation:

$r_1 = \geq 0.3$. 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.

Yours sincerely

[REDACTED]

Head: World Reference Laboratory for FMD

c.c.

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