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FAX TRANSMISSION

TO: [REDACTED] **FROM:** [REDACTED]

DATE: 23.1.07 **FAX NO:** [REDACTED]

PAGES: 2 **RE:** Strain differentiation results

CC: [REDACTED] **FAX NO:** [REDACTED]

[REDACTED]

Strain differentiation results for Jordan type A FMD virus isolates received on 19th December 2006.

The following r_1 values were recently obtained by neutralisation test at the FAO World Reference Laboratory for FMD.

	r_1 Values by neutralisation test against vaccine strains below			
WRL Ref Number	A22	A Eritrea	May 97	Sau 95
A JOR 3/2006	0.44	0.19	0.28	0.21
A JOR 4/2006	0.59	0.17	0.22	0.16

The following r_1 values were obtained by ELISA at the FAO World Reference Laboratory for FMD.

	r_1 Values by ELISA				
WRL Ref Number	A22	Irn 87	A K35/80	May 97	Sau 95
A JOR 3/2006	0.52	0.12	0.23	0.32	0.32
A JOR 4/2006	0.44	0.09	0.19	0.19	0.18

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


Head: World Reference Laboratory for FMD

Cc: 