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FAX TRANSMISSION

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

DATE: 13.2.2006 **FAX NO:** [REDACTED]

PAGES: 2 **RE:** Strain Differentiation
Report

Dear [REDACTED]

Strain differentiation results for serotype C FMD virus isolates received from Ethiopia on 22nd December 2005.

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

r_1 Values by ELISA				
Ref. No	C Ken 267/67	C Noville	C Oberbayern	C Phi 7/84
C Eth 6/05	0.75	0.56	0.19	0.14
C Eth 7/05	0.59	0.30	0.13	0.10
r_1 Values by VNT				
C Eth 6/05			0.44	
C Eth 7/05			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. [REDACTED]