



Institute for Animal Health

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FAX TRANSMISSION

TO: [REDACTED] **FROM:** [REDACTED]
DATE: 24.10.2007 **FAX NO:** [REDACTED]
PAGES: 2 **RE:** Strain differentiation results

Dear [REDACTED]

Strain differentiation results for Sudan type A FMD virus isolates received in a batch of samples on 10th April 2007.

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

Yours sincerely

[REDACTED]
Head: World Reference Laboratory for FMD

c.c. [REDACTED]

r₁ Values by ELISA		
Ref. No	A 22	A Eri
A Sud 1/2006	0.13	0.53
A Sud 3/2006	0.11	0.34
r₁ Values by VNT		
	Irn 87	
A Sud 1/2006	<0.02	
A Sud 3/2006	Not tested	

Interpretation of r₁ 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.