



# Institute for Animal Health

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Acting Head of Site: Dr John Anderson MBE

## FAX TRANSMISSION

Please reply to Fax No: +44 (0)1483 232621

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

Dear [REDACTED]

Strain differentiation results for serotype A FMD virus isolates received from Ethiopia

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

Yours sincerely

[REDACTED]  
**Head: World Reference Laboratory for FMD**

c.c. [REDACTED]

<b>r<sub>1</sub> Values by ELISA</b>		
<b>Ref. No</b>	<b>A 22</b>	<b>A Eri</b>
A Eth 6/2000	0.20	0.46
<b>r<sub>1</sub> Values by VNT</b>		
	<b>Irn 87</b>	
A Eth 6/2000	<0.05	

### **Interpretation of r<sub>1</sub> 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.