



# INSTITUTE FOR ANIMAL HEALTH

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[REDACTED]  
NVL-NARC,  
Park Road  
Islamabad  
Pakistan

Dear [REDACTED]

Vaccine matching results for Asia 1 FMD virus samples received from Pakistan on 3<sup>rd</sup> November 2003 and 17<sup>th</sup> December 2004 respectively.

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

Yours sincerely

[REDACTED]  
CC: [REDACTED]

	<b><math>r_1</math> Values by neutralisation test against vaccine strains below</b>	
<b>WRL Ref Number</b>	<b>As Ind 8/79</b>	<b>As Shamir</b>
PAK 67/03	0.16	0.55
PAK 76/03	0.11	0.48
PAK 01/04	0.13	0.74
PAK 02/04	0.12	0.39

In the case of neutralisation, one-way comparative values (" $r_1$ " values) greater than 0.3 are normally taken to indicate that the field isolate is sufficiently similar to the vaccine strain that use of the vaccine is likely to confer protection against challenge with the field isolate (Rweyemamu, 1984).

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