



# Institute for Animal Health

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Page 1 of 2

# FAX

**To:**

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**From:**

**Date:** 30<sup>th</sup> March 2009

**Subject:** R1 Report

**No. Of Pages:** 2

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Thank you.

Dear [REDACTED]

Please find below the final "r1" value report for A Iraq 21/2009 and A Iraq 24/2009.

Yours sincerely,

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

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Report no: 07/09		2dmVNT							LPBE			
Field Isolate:	SAU	2dmVNT	A Tur06 Arriah pool2	A22 Irq 23-32	A22 Irq 34-43	A Sau 41/91 SI94	A Eri RZ pool	A Ind 17/82 7756	ELISA test ref:	A22 Irq 24/64 TC76-83	A May 97 VJ62-76	A Irn 87 Merial 1781
A Irq 21/2009	B83/09	mean	0.60	0.11	0.07	0.19			mean	0.08	0.83	0.05
A Irq 24/2009	B84/09		0.81	0.53	0.50	0.24	≤0.04	0.22	mean	0.50	≥1	0.15

### 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.

N.B.

All of our phylogenetic trees can be accessed via the internet at:

[http://www.iah.bbsrc.ac.uk/primary\\_index/current\\_research/virus/Picornaviridae/Aphthovirus/index.html](http://www.iah.bbsrc.ac.uk/primary_index/current_research/virus/Picornaviridae/Aphthovirus/index.html)