



Institute for Animal Health

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Page 1 of 3

FAX

To: [REDACTED]

Fax Number: [REDACTED]

CC: [REDACTED]

Fax Number: [REDACTED]

From: [REDACTED]

Date: 3rd April 2009

Subject: R1 Report

No. Of Pages: 3

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Thank you.

Dear [REDACTED]

Please find below the final "r1" value report for O Eth 15/2008 and O Eth 24/2008.

Yours sincerely

[REDACTED]

[REDACTED]

Head: World Reference Laboratory for FMD

CC: [REDACTED]

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The Institute is sponsored by the Biotechnology and Biological Sciences Research Council. An Associated Institute of the University of Reading.

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Report no: 04/09		2dmVNT					LPBE				
Field Isolate:	SAU Isolate ref:	2dmVNT test ref:	O Manisa UV pool	O Bfs VP pool	O Ind R2/75 9418	O Kauf VQ pool	ELISA test ref:	O 3039 1688 25/11/97	O Isr 2/88	O K77/78	O 4174 1621 21/11/05
O ETH 15/2008	B17/09 rs2	mn02/09	0.69	1.00			SD 22/09 SD 24/09	1.00 0.50	Did Not Trap	Did Not Trap	
		mn04/09	0.50	1.00							
		mn06/09	fail	fail							
	B44/09 rs3	mn08/09	0.19	0.25							
		mn11/09	ur	ur							
		mn13/09			0.81						
	B75/09 rs4	mn21/09	0.12	0.35	0.27	0.09 fail					
mn22/09		0.78	0.91	1.00	0.58						
mean		0.46	0.70	0.69	0.58	mean	0.75			0.25	
O ETH 24/2008	B18/09 rs2	mn02/09	0.49	1.00			SD 22/09 SD 24/09	1.00 1.00			0.25 0.25
		mn04/09	0.89	1.00							
		mn06/09	fail	fail							
	B45/09 rs3	mn08/09	0.32	0.56							
		mn11/09	ur	ur							
		mn13/09			1.00						
	B76/09 rs4	mn21/09	0.06	0.26	0.20	0.30 fail					
mn22/09		0.43	0.69	0.74	0.23						
mean		0.44	0.70	0.65	0.23	mean	1.00			0.25	

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