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To:

Email:

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From:

Date: 18th June 2009

Subject: Vaccine Matching Report

No. Of Pages: 3

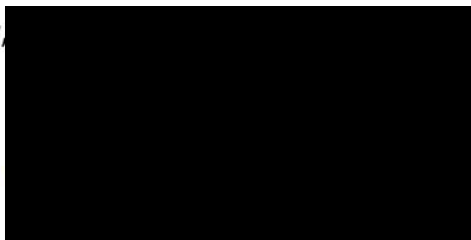
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Thank you.

Dear 

Please find below the final vaccine matching ("r1" value) report by Liquid Phase Blocking ELISA and VNT for A Eth 12/2009 and A Eth 13/2009

Yours sincerely,



Head: World Reference Laboratory for FMD

Institute for Animal Health, Pirbright Laboratory, Ash Road, Pirbright, Surrey, GU24 0NF

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Field Isolate	2dmVNT					LPBE				
	test ref:	A22 Irq	A Tur06	A Eri 98	A Sau 41/91	test ref:	A22 Irq 24/64	A Eri 98	A Irn 99	A Irn 87
A Eth 12/2009	mn48/09	fail*	0.13		0.06	SD 60/09	Did not trap	≥ 1	0.00	0.06
	mn51/09	0.19	0.45			SD 61/09		0.50	0.00	0.19
	mn53/09	0.12		0.42						
	mn55/09		0.47	0.11						
	mn58/09			0.52						
	Mean	0.16	0.46	0.35	0.06	Mean	Did not trap	≥0.75	0.00	0.13
A Eth 13/2009	mn48/09	fail*	0.21		0.09	SD 60/09	Fail	0.50	0.00	0.08
	mn51/09	0.20	0.36			SD 61/09	0.02	0.50	0.00	0.19
	mn53/09	0.20		0.44		SD 62/09	0.03			
	mn55/09		0.32	0.21						
	mn58/09			0.45						
	Mean	0.20	0.34	0.37	0.09	Mean	0.03	0.50	0.00	0.14

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