

INSTITUTE FOR ANIMAL HEALTH  
Director: Professor Martin W. Shirley, PhD  
PIRBRIGHT LABORATORY  
Ash Road,  
Pirbright,  
Surrey,  
GU24 0NF  
Intn Tel: 00 44 1483 232441  
Tel: 01483 232441 Fax: 01483 232621

## FMD Vaccine Matching Strain Differentiation Report

Lab Reference WRL Batch Number: WRLFMD/2009/00018

Sender Details:

Date Received: 14<sup>th</sup> of April 2009  
Country of Origin: Ethiopia  
Date Reported: 30<sup>th</sup> July 2009

Results Ap

Official Stamp:

Date: 31 / 07 / 09

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: [elizabeth.byrom@bbsrc.ac.uk](mailto:elizabeth.byrom@bbsrc.ac.uk))

Report no:	VNT				LPBE					
Field Isolate:	VNT test ref:	O Manisa	O Bfs	O Ind R2/75	ELISA test ref:	O Manisa	O BFS 1860	O 4174	O Hkn 6/83	O K77/78
O Eth 24/2009					SD 63/09	0.50	0.13	0.09		0.13
	mn 74/09	0.17	0.46	>1.0	SD 66/09	1.00	0.13	0.13	0.25	
	mn 75/09	0.39	0.39	>1.0	SD 69/09				0.25	0.13
	mn 78/09	ref sera fail								
	mn 79/09	0.40								
	mean	0.32	0.43	>1.0	mean	0.75	0.13	0.11	0.25	0.13
O Eth 28/2009					SD 63/09	0.13	0.13	0.19		0.00
	mn 74/09	0.16	0.85	>1.0	SD 66/09	1.00	0.13	0.13	0.50	
	mn 75/09	0.38	0.62	>1.0	SD 69/09	0.25			0.50	
	mn 78/09	ref sera fail								
	mn 79/09	0.41								
	mean	0.32	0.74	>1.0	Mean	0.46	0.13	0.16	0.50	

In the case of VNT:

$r_1 = \geq 0.3$ . 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

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.