

FMD Detection And Serotyping Results Report

Lab Reference WRL Batch Number: WRLFMD/2010/00029

Sender
Details:



INSTITUTE FOR ANIMAL HEALTH

Director: Professor Martin W. Shirley, PhD

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Date Received: 31/08/2010 Country Of Origin: PAKISTAN

Date Tests Completed: 16/09/2010

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PRW 1	PAK 25/2010	CATTLE, epithelium, Collected 01/07/2010	POS	O
PRW 2	PAK 26/2010	BUFFALO, epithelium, Collected 01/07/2010	POS	O
PRW 3	PAK 27/2010	BUFFALO, epithelium, Collected 01/07/2010	POS	NVD
PRW 4	PAK 28/2010	BUFFALO, epithelium, Collected 01/07/2010	POS	O
PRW 5	PAK 29/2010	BUFFALO, epithelium, Collected 05/07/2010	NEG	O
PRW 6	PAK 30/2010	CATTLE, epithelium, Collected 05/07/2010	POS	NVD
PRW 7	PAK 31/2010	BUFFALO, epithelium, Collected 05/07/2010	POS	O
PRW 8	PAK 32/2010	CATTLE, epithelium, Collected 05/07/2010	POS	NVD
GBT 1	PAK 33/2010	CATTLE, epithelium, Collected 24/07/2010	POS	NVD
GBT 2	PAK 34/2010	CATTLE, epithelium, Collected 24/07/2010	POS	NVD

NVD - No Virus Detected POS - FMDV Genome Detected NEG - No FMDV Genome Detected FMDVGD - FMDV Genome Detected

SOPs - WRL 026 (PCR), WRL 002 (Cell Culture), WRL 006 (ELISA)

FMD Detection And Serotyping Results

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WRL Batch: WRLFMD/2010/00029 IAH Batch: IAHB/2010/01527

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
GBT 3	PAK 35/2010	CATTLE, epithelium, Collected 29/07/2010	POS	O
GBT 4	PAK 36/2010	CATTLE, epithelium, Collected 29/07/2010	POS	O
PSW 1	PAK 37/2010	BUFFALO, epithelium, Collected 30/07/2010	POS	A, O
PSW 2	PAK 38/2010	BUFFALO, epithelium, Collected 30/07/2010	POS	NVD
PSW 3	PAK 39/2010	BUFFALO, epithelium, Collected 30/07/2010	POS	NVD
PSW 4	PAK 40/2010	BUFFALO, epithelium, Collected 30/07/2010	POS	O
PGK 1	PAK 41/2010	BUFFALO, epithelium, Collected 01/08/2010	NEG	NVD
ISB 1	PAK 42/2010	CATTLE, epithelium, Collected 12/08/2010	POS	O
PSG 1	PAK 43/2010	BUFFALO, epithelium, Collected 17/08/2010	POS	NVD
PSG 2	PAK 44/2010	BUFFALO, epithelium, Collected 17/08/2010	POS	NVD
PSG 3	PAK 45/2010	BUFFALO, epithelium, Collected 17/08/2010	POS	NVD

Results approved by: 

Signed: 

Official stamp: 

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.wilson@bbsrc.ac.uk)

Date: 16 / 9 / 10

LAB DATA VALIDATION REPORT
LAB DATA AND TESTS FOR BATCH - WRLFMD/2010/00029

GENERAL LAB DATA

WRL REF NUMBER	DATE RECEIVED	WEIGHT IN GRAMS	PH	STORED AMOUNT	DATE STORED	RT-PCR	INTERIM RESULT	FINAL RESULT	DATE VALIDATED	VALIDATED BY
PAK/2010/00025	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		0		
PAK/2010/00026	31/08/2010	0.001	7.6	1	31/08/2010	POSITIVE		0		
PAK/2010/00027	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00028	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		0		
PAK/2010/00029	31/08/2010	0.001	7.5	1	31/08/2010	NEGATIVE		0		
PAK/2010/00030	31/08/2010	0	7.6	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00031	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		0		
PAK/2010/00032	31/08/2010	0.001	7.5	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00033	31/08/2010	0.001	7.4	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00034	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00035	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		0		
PAK/2010/00036	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		0		
PAK/2010/00037	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		A, O		
PAK/2010/00038	31/08/2010	0.001	7.4	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00039	31/08/2010	0.001	7.4	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00040	31/08/2010	0	7.4	1	31/08/2010	POSITIVE		0		
PAK/2010/00041	31/08/2010	0.001	7.4	1	31/08/2010	NEGATIVE		NVD		
PAK/2010/00042	31/08/2010	0.001	7.8	1	31/08/2010	POSITIVE		0		
PAK/2010/00043	31/08/2010	0.001	7.4	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00044	31/08/2010	0.001	7.6	1	31/08/2010	POSITIVE		FMDV GD		
PAK/2010/00045	31/08/2010	0.001	7.4	1	31/08/2010	POSITIVE		FMDV GD		

ELISA TEST DATA

WRL REF NO	TEST TYPE	ATTEMPT	HOURLY	SEROTYPE	RESULTS	NEGATIVE	DATE VALIDATED	VALIDATED BY
PAK/2010/00025	BTY1	1	48	O	2.64	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00026	BTY1	1	24	O	2.36	NO		
	OS	1	0	O	0.3	NO		
PAK/2010/00027	OS	1	0	NEG	-0.9	YES		
PAK/2010/00028	BTY1	1	24	O	1.81	NO		
	OS	1	0	O	0.37	NO		
PAK/2010/00029	BTY1	1	48	O	2.28	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00030	OS	1	0	NEG	-0.9	YES		
PAK/2010/00031	BTY2	1	24	O	2.63	NO		
	OS	1	0	O	0.31	NO		
PAK/2010/00032	OS	1	0	NEG	-0.9	YES		
PAK/2010/00033	OS	1	0	NEG	-0.9	YES		
PAK/2010/00034	OS	1	0	NEG	-0.9	YES		
PAK/2010/00035	BTY1	1	48	O	0.72	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00036	BTY2	1	24	O	2.15	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00037	BTY1	1	48	A	0.46	NO		
	BTY1	1	48	O	0.41	NO		
	BTY1	2	48	A	2.56	NO		

	BTY1	2	48	O	0.86	NO		
	BTY2	1	24	O	0.22	NO		
	BTY2	1	24	A	0.68	NO		
	BTY2	2	24	O	0.52	NO		
	BTY2	2	24	A	2.71	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00038	OS	1	0	NEG	-0.9	YES		
PAK/2010/00039	OS	1	0	NEG	-0.9	YES		
PAK/2010/00040	BTY2	1	24	O	1.99	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00041	OS	1	0	NEG	-0.9	YES		
PAK/2010/00042	BTY1	1	24	O	1.63	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00043	OS	1	0	NEG	-0.9	YES		
PAK/2010/00044	OS	1	0	NEG	-0.9	YES		
PAK/2010/00045	OS	1	0	NEG	-0.9	YES		

TISSUE CULTURE TEST DATA

WRL REF NUMBER	TC TEST TYPE	ATTEMPT NUMBER	HOUR	NUMBER OF TUBES	READING	DATE READ	DATE VALIDATED	VALIDATED BY
PAK/2010/00025	BTY1	1	24	3	E			
	BTY1	1	48	4	+			
PAK/2010/00026	BTY1	1	24	5	+			
PAK/2010/00027	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00028	BTY1	1	24	5	+			
PAK/2010/00029	BTY1	1	24	1	E			
	BTY1	1	48	4	+			
PAK/2010/00030	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00031	BTY1	1	24	1	VE			
	BTY1	1	48	2	+			
	BTY2	1	24	5	+			
PAK/2010/00032	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00033	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00034	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00035	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2010/00036	BTY1	1	24	1	E			
	BTY1	1	48	2	+			

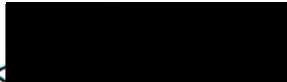
PAK/2010/00037	BTY2	1	24	5	+		
	BTY1	1	24	5	-		
	BTY1	1	48	3	+		
PAK/2010/00038	BTY2	1	24	5	+		
	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
PAK/2010/00039	BTY1	1	96	5	-		
	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
PAK/2010/00040	BTY1	1	96	5	-		
	BTY1	1	24	5	-		
	BTY1	1	48	1	+		
PAK/2010/00041	BTY2	1	24	5	+		
	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
PAK/2010/00042	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	BTY1	1	24	5	+		
PAK/2010/00043	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
PAK/2010/00044	BTY1	1	96	5	-		
	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
PAK/2010/00045	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	BTY1	1	24	5	-		
PAK/2010/00045	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		

CT VALUES

WRL REF NUMBER	TEST NUMBER	WRL TEST REF	CT VALUE	CT MATERIAL	CT VIRUS	DATE VALIDATED	VALIDATED BY
PAK/2010/00025	1	WRL 0618	19.89	OS	FMD		
	2	WRL 0618	19.4	OS	FMD		
PAK/2010/00026	1	WRL 0618	14.36	OS	FMD		
	2	WRL 0618	14.59	OS	FMD		
PAK/2010/00027	1	WRL 0618	27.02	OS	FMD		
	2	WRL 0618	26.96	OS	FMD		
PAK/2010/00028	1	WRL 0618	13.96	OS	FMD		
	2	WRL 0618	14.24	OS	FMD		
PAK/2010/00029	1	WRL 0618	35.32	OS	FMD		
	2	WRL 0618	34.65	OS	FMD		
PAK/2010/00030	1	WRL 0618	15.57	OS	FMD		
	2	WRL 0618	15.9	OS	FMD		
PAK/2010/00031	1	WRL 0618	19.49	OS	FMD		
	2	WRL 0618	17.05	OS	FMD		
PAK/2010/00032	1	WRL 0619	20.55	OS	FMD		
	2	WRL 0619	20.21	OS	FMD		
PAK/2010/00033	1	WRL 0619	18.18	OS	FMD		
	2	WRL 0619	18.41	OS	FMD		

PAK/2010/00034	1	WRL 0619	21.51	OS	FMD		
	2	WRL 0619	22.03	OS	FMD		
PAK/2010/00035	1	WRL 0619	17.54	OS	FMD		
	2	WRL 0619	17.63	OS	FMD		
PAK/2010/00036	1	WRL 0619	14.88	OS	FMD		
	2	WRL 0619	14.99	OS	FMD		
PAK/2010/00037	1	WRL 0619	13.18	OS	FMD		
	2	WRL 0619	13.4	OS	FMD		
PAK/2010/00038	1	WRL 0619	26.94	OS	FMD		
	2	WRL 0619	27.62	OS	FMD		
PAK/2010/00039	1	WRL 0619	18.92	OS	FMD		
	2	WRL 0619	19.37	OS	FMD		
PAK/2010/00040	1	WRL 0619	16.40 16.53	OS	FMD		
	2	WRL 0619	16.84	OS	FMD		
PAK/2010/00041	1	WRL 0623	50	OS	FMD		
	2	WRL 0623	50	OS	FMD		
PAK/2010/00042	1	WRL 0623	20.37	OS	FMD		
	2	WRL 0623	20.81	OS	FMD		
PAK/2010/00043	1	WRL 0623	31.94	OS	FMD		
	2	WRL 0623	31.2	OS	FMD		
PAK/2010/00044	1	WRL 0624	31.53	OS	FMD		
	2	WRL 0624	30.75	OS	FMD		
PAK/2010/00045	1	WRL 0624	28.38	OS	FMD		
	2	WRL 0624	28.09	OS	FMD		

Validated by



Date

16/9/10

FMD DETECTION AND SEROTYPING FULL RESULTS

BATCH NUMBER - WRLFMD/2010/00029 DATE RECEIVED AT SITE - 31/08/2010 FROM PAKISTAN

SENDER DETAILS [REDACTED]

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY RS	Other	PCR Result	Final Result
PRW 1	PAK 25/2010	CATTLE, epithelium Collected 01/07/2010	NEG	O		19.89, 19.4	O
PRW 2	PAK 26/2010	BUFFALO, epithelium Collected 01/07/2010	O	O		14.36, 14.59	O
PRW 3	PAK 27/2010	BUFFALO, epithelium Collected 01/07/2010	NEG	-ve		27.02, 26.96	FMDV GD
PRW 4	PAK 28/2010	BUFFALO, epithelium Collected 01/07/2010	O	O		13.96, 14.24	O
PRW 5	PAK 29/2010	BUFFALO, epithelium Collected 05/07/2010	NEG	O		35.32, 34.65	O
PRW 6	PAK 30/2010	CATTLE, epithelium Collected 05/07/2010	NEG	-ve		15.57, 15.9	FMDV GD

NVD - No Virus Detected POS - FMDV Genome Detected NEG - No FMDV Genome Detected FMDVGD - FMDV Genome Detected

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Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY RS	Other	PCR Result	Final Result
PRW 7	PAK 31/2010	BUFFALO, epithelium Collected 05/07/2010	O	O		19.49, 17.05	O
PRW 8	PAK 32/2010	CATTLE, epithelium Collected 05/07/2010	NEG	-ve		20.55, 20.21	FMDV GD
GBT 1	PAK 33/2010	CATTLE, epithelium Collected 24/07/2010	NEG	-ve		18.18, 18.41	FMDV GD
GBT 2	PAK 34/2010	CATTLE, epithelium Collected 24/07/2010	NEG	-ve		21.51, 22.03	FMDV GD
GBT 3	PAK 35/2010	CATTLE, epithelium Collected 29/07/2010	NEG	O		17.54, 17.63	O
GBT 4	PAK 36/2010	CATTLE, epithelium Collected 29/07/2010	NEG	O		14.88, 14.99	O
PSW 1	PAK 37/2010	BUFFALO, epithelium Collected 30/07/2010	NEG	O, A		13.18, 13.4	A, O
PSW 2	PAK 38/2010	BUFFALO, epithelium Collected 30/07/2010	NEG	-ve		26.94, 27.62	FMDV GD
PSW 3	PAK 39/2010	BUFFALO, epithelium Collected 30/07/2010	NEG	-ve		18.92, 19.37	FMDV GD

NVD - No Virus Detected POS - FMDV Genome Detected NEG - No FMDV Genome Detected FMDVGD - FMDV Genome Detected

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY	RS	Other	PCR Result	Final Result
PSW 4	PAK 40/2010	BUFFALO, epithelium Collected 30/07/2010	NEG	O			16.19, 16.84	O
PGK 1	PAK 41/2010	BUFFALO, epithelium Collected 01/08/2010	NEG	-ve			50, 50	NVD
ISB 1	PAK 42/2010	CATTLE, epithelium Collected 12/08/2010	NEG	O			20.37, 20.81	O
PSG 1	PAK 43/2010	BUFFALO, epithelium Collected 17/08/2010	NEG	-ve			31.94, 31.2	FMDV GD
PSG 2	PAK 44/2010	BUFFALO, epithelium Collected 17/08/2010	NEG	-ve			31.53, 30.75	FMDV GD
PSG 3	PAK 45/2010	BUFFALO, epithelium Collected 17/08/2010	NEG	-ve			28.38, 28.09	FMDV GD

Validated by 

Date 16/9/10

NVD - No Virus Detected POS - FMDV Genome Detected NEG - No FMDV Genome Detected FMDVGD - FMDV Genome Detected

WRLFMD/2010/00029

IAHB/2010/01527

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