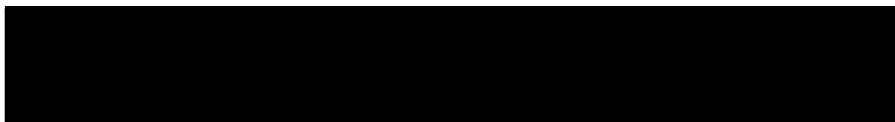


FMD Detection And Serotyping Results

Lab Reference WRL batch Number: WRLFMD/2011/00003

Sender Details:



Date Received: 18/01/2011

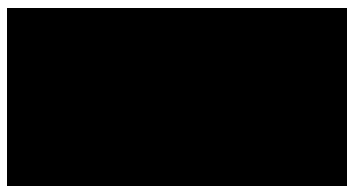
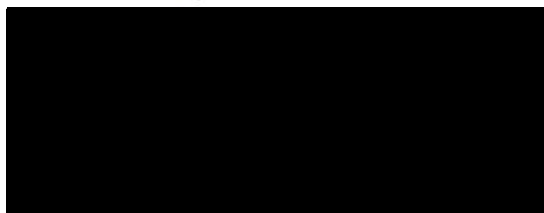
Country of Origin: PAKISTAN

Dear Dr E Ul Haq Khan,

Diagnostics work has now been completed in respect of the samples you submitted and the details are as attached.

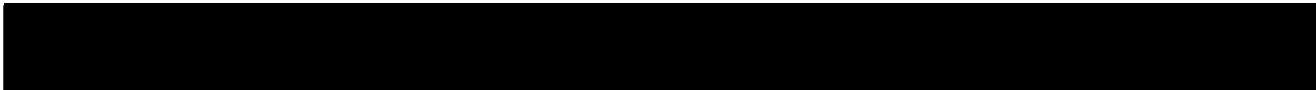
Results Approved By:

Official Stamp:



Date:

3/3/11



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)

FMD Detection And Serotyping Results Report

INSTITUTE FOR ANIMAL HEALTH

Acting Director: Professor David Paton MA, VetMB, PhD, MRCVS

Lab Reference WRL Batch Number: WRLFMD/2011/00003

Sender
Details:

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Email: iah@bbsrc.ac.uk

Website: www.iah.bbsrc.ac.uk

Date Received: 18/01/2011 Country Of Origin: PAKISTAN

Date Tests Completed 03/03/2011

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PBW10	PAK 77/2010	BUFFALO, epithelium, Collected 18/11/2010	POS	O
PBW11	PAK 78/2010	CATTLE, epithelium, Collected 18/11/2010	POS	O
PBW12	PAK 79/2010	BUFFALO, epithelium, Collected 18/11/2010	POS	O
PBW18	PAK 80/2010	CATTLE, epithelium, Collected 22/11/2010	POS	O
PBW19	PAK 81/2010	CATTLE, epithelium, Collected 22/11/2010	POS	O
PBW20	PAK 82/2010	CATTLE, epithelium, Collected 22/11/2010	POS	NVD
PFDA1	PAK 83/2010	BUFFALO, epithelium, Collected 28/11/2010	POS	O
PSG20	PAK 84/2010	BUFFALO, epithelium, Collected 01/12/2010	POS	O
PSG21	PAK 85/2010	BUFFALO, epithelium, Collected 01/12/2010	POS	O
PSG22	PAK 86/2010	BUFFALO, epithelium, Collected 01/12/2010	POS	O

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/2011/00003

IAH Batch: IAHB/2011/00051

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PSG23	PAK 87/2010	CATTLE, epithelium, Collected 01/12/2010	POS	O
PBW14	PAK 88/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PBW15	PAK 89/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PSG24	PAK 90/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PSG25	PAK 91/2010	CATTLE, epithelium, Collected 07/12/2010	POS	NVD
PSG26	PAK 92/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PSG27	PAK 93/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PSG28	PAK 94/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PSG29	PAK 95/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PSG30	PAK 96/2010	CATTLE, epithelium, Collected 07/12/2010	POS	O
PBW13	PAK 97/2010	CATTLE, epithelium, Collected 10/12/2010	POS	NVD
PBW16	PAK 98/2010	CATTLE, epithelium, Collected 10/12/2010	POS	O
PBW17	PAK 99/2010	CATTLE, epithelium, Collected 10/12/2010	POS	O
PISB9	PAK 100/2010	BUFFALO, epithelium, Collected 11/12/2010	POS	O

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)

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PISB10	PAK 101/2010	CATTLE, epithelium, Collected 11/12/2010	POS	O
PISB5	PAK 102/2010	CATTLE, epithelium, Collected 12/12/2010	POS	O
PISB6	PAK 103/2010	CATTLE, epithelium, Collected 12/12/2010	POS	O
PISB7	PAK 104/2010	BUFFALO, epithelium, Collected 12/12/2010	POS	O
PBW7	PAK 105/2010	BUFFALO, epithelium, Collected 15/12/2010	POS	O
PBW8	PAK 106/2010	BUFFALO, epithelium, Collected 15/12/2010	POS	ASIA-1, O
PBW9	PAK 107/2010	BUFFALO, epithelium, Collected 15/12/2010	POS	NVD
PKR8	PAK 108/2010	CATTLE, epithelium, Collected 24/12/2010	POS	ASIA-1
PKR9	PAK 109/2010	CATTLE, epithelium, Collected 24/12/2010	POS	ASIA-1
PKR10	PAK 110/2010	CATTLE, epithelium, Collected 24/12/2010	POS	ASIA-1
PKR11	PAK 111/2010	CATTLE, epithelium, Collected 24/12/2010	POS	ASIA-1
PBW21	PAK 112/2010	CATTLE, epithelium, Collected 27/12/2010	POS	O
PBK6	PAK 113/2010	CATTLE, epithelium, Collected 31/12/2010	POS	O
PBK7	PAK 114/2010	CATTLE, epithelium, Collected 31/12/2010	POS	O

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/2011/00003

IAH Batch: IAHB/2011/00051

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PBK8	PAK 115/2010	CATTLE, epithelium, Collected 31/12/2010	NEG	NVD
PBK9	PAK 116/2010	CATTLE, epithelium, Collected 31/12/2010	POS	O
PBK1	PAK 1/2011	BUFFALO, epithelium, Collected 03/01/2011	POS	O
PBK2	PAK 2/2011	CATTLE, epithelium, Collected 03/01/2011	POS	O
PBK3	PAK 3/2011	CATTLE, epithelium, Collected 03/01/2011	POS	O
PBK4	PAK 4/2011	CATTLE, epithelium, Collected 03/01/2011	POS	O
PBK5	PAK 5/2011	CATTLE, epithelium, Collected 03/01/2011	POS	O
PKR20	PAK 6/2011	BUFFALO, epithelium, Collected 03/01/2011	POS	ASIA-1
PKR21	PAK 7/2011	BUFFALO, epithelium, Collected 03/01/2011	POS	ASIA-1
PKR22	PAK 8/2011	BUFFALO, epithelium, Collected 03/01/2011	NEG	ASIA-1
PBK10	PAK 9/2011	CATTLE, epithelium, Collected 04/01/2011	POS	O
PBK11	PAK 10/2011	CATTLE, epithelium, Collected 04/01/2011	POS	O
PKR17	PAK 11/2011	CATTLE, epithelium, Collected 04/01/2011	POS	ASIA-1
PKR18	PAK 12/2011	CATTLE, epithelium, Collected 04/01/2011	POS	ASIA-1

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)

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PKR19	PAK 13/2011	CATTLE, epithelium, Collected 04/01/2011	POS	ASIA-1
PKR23	PAK 14/2011	BUFFALO, epithelium, Collected 05/01/2011	POS	ASIA-1
PKR24	PAK 15/2011	BUFFALO, epithelium, Collected 05/01/2011	POS	ASIA-1
PKR25	PAK 16/2011	BUFFALO, epithelium, Collected 05/01/2011	POS	ASIA-1
PKR26	PAK 17/2011	CATTLE, epithelium, Collected 05/01/2011	POS	ASIA-1
PCRA1	PAK 18/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA2	PAK 19/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA3	PAK 20/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA4	PAK 21/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA5	PAK 22/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA6	PAK 23/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA7	PAK 24/2011	CATTLE, epithelium, Collected 05/01/2011	POS	NVD
PCRA8	PAK 25/2011	CATTLE, epithelium, Collected 07/01/2011	NEG	NVD
PCRA9	PAK 26/2011	CATTLE, epithelium, Collected 07/01/2011	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)

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PCRA10	PAK 27/2011	CATTLE, epithelium, Collected 07/01/2011	POS	NVD
PCRA11	PAK 28/2011	CATTLE, epithelium, Collected 07/01/2011	NEG	NVD
PCRA12	PAK 29/2011	CATTLE, epithelium, Collected 07/01/2011	POS	NVD
PCRA13	PAK 30/2011	CATTLE, epithelium, Collected 07/01/2011	POS	NVD
PCRA14	PAK 31/2011	CATTLE, epithelium, Collected 07/01/2011	POS	NVD
PKR27	PAK 32/2011	BUFFALO, epithelium, Collected 08/01/2011	POS	ASIA-1
PKR28	PAK 33/2011	BUFFALO, epithelium, Collected 08/01/2011	POS	ASIA-1
PKR29	PAK 34/2011	BUFFALO, epithelium, Collected 08/01/2011	POS	ASIA-1
PKR30	PAK 35/2011	BUFFALO, epithelium, Collected 08/01/2011	POS	ASIA-1
PKR12	PAK 36/2011	CATTLE, epithelium, Collected 10/01/2011	POS	ASIA-1
PKR13	PAK 37/2011	CATTLE, epithelium, Collected 10/01/2011	POS	ASIA-1
PKR14	PAK 38/2011	CATTLE, epithelium, Collected 10/01/2011	POS	ASIA-1
PKR15	PAK 39/2011	CATTLE, epithelium, Collected 10/01/2011	POS	ASIA-1
PCRA15	PAK 40/2011	CATTLE, epithelium, Collected 10/01/2011	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)

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
PCRA16	PAK 41/2011	CATTLE, epithelium, Collected 10/01/2011	NEG	NVD
PCRA17	PAK 42/2011	CATTLE, epithelium, Collected 10/01/2011	POS	NVD
PCRA18	PAK 43/2011	CATTLE, epithelium, Collected 10/01/2011	POS	NVD
PCRA19	PAK 44/2011	CATTLE, epithelium, Collected 10/01/2011	POS	NVD
PCRA20	PAK 45/2011	CATTLE, epithelium, Collected 10/01/2011	POS	NVD
PCRA21	PAK 46/2011	CATTLE, epithelium, Collected 10/01/2011	POS	NVD
PKR16	PAK 47/2011	CATTLE, epithelium, Collected 12/01/2011	POS	ASIA-1
PKR31	PAK 48/2011	BUFFALO, epithelium, Collected 13/01/2011	POS	ASIA-1
PKR32	PAK 49/2011	BUFFALO, epithelium, Collected 13/01/2011	POS	ASIA-1
PKR33	PAK 50/2011	BUFFALO, epithelium, Collected 13/01/2011	POS	ASIA-1

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/2011/00003

IAH Batch: IAHB/2011/00051

FMD DETECTION AND SEROTYPING FULL RESULTS

BATCH NUMBER - WRLFMD/2011/00003 DATE RECEIVED AT SITE - 18/01/2011 FROM PAKISTAN

SENDER DETAILS Dr E Ul Haq Khan, FAO Project Controlling Transboundary Animal Diseases in Central Asian Countries, STFS/INT/907/ITA, Pakistan,
EMAIL - ehtisham26@yahoo.com

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA			Cell Culture / ELISA BTY	PCR Result	Final Result
			ELISA	RS	Other			
PBW10	PAK 77/2010	BUFFALO, epithelium Collected 18/11/2010	NEG		O	17, 16.79	O	
PBW11	PAK 78/2010	CATTLE, epithelium Collected 18/11/2010	NEG		O	23.07, 22.43	O	
PBW12	PAK 79/2010	BUFFALO, epithelium Collected 18/11/2010	O		O	23.07, 22.43	O	
PBW18	PAK 80/2010	CATTLE, epithelium Collected 22/11/2010	NEG		O	21.83, 21.36	O	
PBW19	PAK 81/2010	CATTLE, epithelium Collected 22/11/2010	NEG		O	28.73, 28.3	O	
PBW20	PAK 82/2010	CATTLE, epithelium Collected 22/11/2010	NEG		-ve	26.2, 25.89	FMDV GD	

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

WRLFMD/2011/00003

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Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY RS	Other	PCR Result	Final Result
PFDA1	PAK 83/2010	BUFFALO, epithelium Collected 28/11/2010	NEG	O		23.72, 23.78	O
PSG20	PAK 84/2010	BUFFALO, epithelium Collected 01/12/2010	O	O		12.74, 13.9	O
PSG21	PAK 85/2010	BUFFALO, epithelium Collected 01/12/2010	NEG	O		17.99, 18.36	O
PSG22	PAK 86/2010	BUFFALO, epithelium Collected 01/12/2010	O	O		12.3, 13.29	O
PSG23	PAK 87/2010	CATTLE, epithelium Collected 01/12/2010	O	O		17.34, 17.3	O
PBW14	PAK 88/2010	CATTLE, epithelium Collected 07/12/2010	O	O		14.89, 15.28	O
PBW15	PAK 89/2010	CATTLE, epithelium Collected 07/12/2010	NEG	O		16.08, 16.08	O
PSG24	PAK 90/2010	CATTLE, epithelium Collected 07/12/2010	O	O		8.7, 8.18	O
PSG25	PAK 91/2010	CATTLE, epithelium Collected 07/12/2010	NEG	-ve		34.59, 31.26	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
PSG26	PAK 92/2010	CATTLE, epithelium Collected 07/12/2010	O	O		13.59, 12.95	O
PSG27	PAK 93/2010	CATTLE, epithelium Collected 07/12/2010	O	O		15.23, 15.29	O
PSG28	PAK 94/2010	CATTLE, epithelium Collected 07/12/2010	NEG	O		25.63, 25.89	O
PSG29	PAK 95/2010	CATTLE, epithelium Collected 07/12/2010	NEG	O		14.92, 14.98	O
PSG30	PAK 96/2010	CATTLE, epithelium Collected 07/12/2010	NEG	O		14.92, 14.98	O
PBW13	PAK 97/2010	CATTLE, epithelium Collected 10/12/2010	NEG	-ve		30.93, 30.42	FMDV GD
PBW16	PAK 98/2010	CATTLE, epithelium Collected 10/12/2010	NEG	O		24.47, 24.01	O
PBW17	PAK 99/2010	CATTLE, epithelium Collected 10/12/2010	NEG	O		18.84, 18.22	O
PISB9	PAK 100/2010	BUFFALO, epithelium Collected 11/12/2010	O	O		16.24, 16.63	O

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
PISB10	PAK 101/2010	CATTLE, epithelium Collected 11/12/2010	O	O		13.91, 14.67	O
PISB5	PAK 102/2010	CATTLE, epithelium Collected 12/12/2010	O	O		13.11, 13.42	O
PISB6	PAK 103/2010	CATTLE, epithelium Collected 12/12/2010	NEG	O		22.79, 22.39	O
PISB7	PAK 104/2010	BUFFALO, epithelium Collected 12/12/2010	O	O		18.66, 18.29	O
PBW7	PAK 105/2010	BUFFALO, epithelium Collected 15/12/2010	O	O		20.83, 20.36	O
PBW8	PAK 106/2010	BUFFALO, epithelium Collected 15/12/2010	NEG	O, ASIA-1		19.74, 19.68	ASIA-1, O
PBW9	PAK 107/2010	BUFFALO, epithelium Collected 15/12/2010	NEG	-ve		22.38, 22.18	FMDV GD
PKR8	PAK 108/2010	CATTLE, epithelium Collected 24/12/2010	ASIA-1	ASIA-1		15.59, 14.44	ASIA-1
PKR9	PAK 109/2010	CATTLE, epithelium Collected 24/12/2010	NEG	ASIA-1		17.13, 16.91	ASIA-1

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
PKR10	PAK 110/2010	CATTLE, epithelium Collected 24/12/2010	ASIA-1	ASIA-1		10.25, 11.19	ASIA-1
PKR11	PAK 111/2010	CATTLE, epithelium Collected 24/12/2010	ASIA-1	ASIA-1		11.83, 11.8	ASIA-1
PBW20 PBW21	PAK 112/2010	CATTLE, epithelium Collected 27/12/2010	NEG	O		16, 15.71	O
PBK6	PAK 113/2010	CATTLE, epithelium Collected 31/12/2010	O	O		11.5, 12.5	O
PBK7	PAK 114/2010	CATTLE, epithelium Collected 31/12/2010	O	O		12.83, 12.89	O
PBK8	PAK 115/2010	CATTLE, epithelium Collected 31/12/2010	NEG	-ve		36, 36.47	NVD
PBK9	PAK 116/2010	CATTLE, epithelium Collected 31/12/2010	O	O		17.59, 16.95	O
PBK1	PAK 1/2011	BUFFALO, epithelium Collected 03/01/2011	O	O		19.25, 20.56	O
PBK2	PAK 2/2011	CATTLE, epithelium Collected 03/01/2011	O	O		13.76, 13.96	O

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
PBK3	PAK 3/2011	CATTLE, epithelium Collected 03/01/2011	O	O		15.38, 15	O
PBK4	PAK 4/2011	CATTLE, epithelium Collected 03/01/2011	O	O		13.31	O
PBK5	PAK 5/2011	CATTLE, epithelium Collected 03/01/2011	O	O		13.08, 13.29	O
PKR20	PAK 6/2011	BUFFALO, epithelium Collected 03/01/2011	NEG	ASIA-1		17.28	ASIA-1
PKR21	PAK 7/2011	BUFFALO, epithelium Collected 03/01/2011	NEG	ASIA-1		17.31	ASIA-1
PKR22	PAK 8/2011	BUFFALO, epithelium Collected 03/01/2011	ASIA-1	ASIA-1		50, 50	ASIA-1
PBK10	PAK 9/2011	CATTLE, epithelium Collected 04/01/2011	NEG	O		17.27	O
PBK11	PAK 10/2011	CATTLE, epithelium Collected 04/01/2011	O	O		11.58	O
PKR17	PAK 11/2011	CATTLE, epithelium Collected 04/01/2011	NEG	ASIA-1		18.35, 19.9	ASIA-1

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

WRLFMD/2011/00003

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Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY RS	Other	PCR Result	Final Result
PKR18	PAK 12/2011	CATTLE, epithelium Collected 04/01/2011	ASIA-1	ASIA-1		15.17, 14.71	ASIA-1
PKR19	PAK 13/2011	CATTLE, epithelium Collected 04/01/2011	ASIA-1	ASIA-1		12.63, 12.77	ASIA-1
PKR23	PAK 14/2011	BUFFALO, epithelium Collected 05/01/2011	ASIA-1	ASIA-1		9.16, 9.85	ASIA-1
PKR24	PAK 15/2011	BUFFALO, epithelium Collected 05/01/2011	ASIA-1	ASIA-1		10.95, 10.55	ASIA-1
PKR25	PAK 16/2011	BUFFALO, epithelium Collected 05/01/2011	NEG	ASIA-1		13.68, 13.06	ASIA-1
PKR26	PAK 17/2011	CATTLE, epithelium Collected 05/01/2011	ASIA-1	ASIA-1		9.43, 9.61	ASIA-1
PCRA1	PAK 18/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		22.78, 22.91	FMDV GD
PCRA2	PAK 19/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		20.69, 19.88	FMDV GD
PCRA3	PAK 20/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		18.78, 18.88	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
PCRA4	PAK 21/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		24.61, 25.42	FMDV GD
PCRA5	PAK 22/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		21.71, 21.03	FMDV GD
PCRA6	PAK 23/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		20.04, 20.51	FMDV GD
PCRA7	PAK 24/2011	CATTLE, epithelium Collected 05/01/2011	NEG	-ve		23.06, 22.94	FMDV GD
PCRA8	PAK 25/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		50, 35.43	NVD
PCRA9	PAK 26/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		26.76, 27.28	FMDV GD
PCRA10	PAK 27/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		21.3, 22.01	FMDV GD
PCRA11	PAK 28/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		35.8, 34.69	NVD
PCRA12	PAK 29/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		24.96, 24.05	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
PCRA13	PAK 30/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		30.89, 31.06	FMDV GD
PCRA14	PAK 31/2011	CATTLE, epithelium Collected 07/01/2011	NEG	-ve		18.4, 20.19	FMDV GD
PKR27	PAK 32/2011	BUFFALO, epithelium Collected 08/01/2011	NEG	ASIA-1		17.29, 16	ASIA-1
PKR28	PAK 33/2011	BUFFALO, epithelium Collected 08/01/2011	NEG	ASIA-1		21.78, 22.31	ASIA-1
PKR29	PAK 34/2011	BUFFALO, epithelium Collected 08/01/2011	NEG	ASIA-1		12.34, 14.16	ASIA-1
PKR30	PAK 35/2011	BUFFALO, epithelium Collected 08/01/2011	ASIA-1	ASIA-1		11.27, 12.12	ASIA-1
PKR12	PAK 36/2011	CATTLE, epithelium Collected 10/01/2011	ASIA-1	ASIA-1		8.2, 9.94	ASIA-1
PKR13	PAK 37/2011	CATTLE, epithelium Collected 10/01/2011	ASIA-1	ASIA-1		14.45, 14.38	ASIA-1
PKR14	PAK 38/2011	CATTLE, epithelium Collected 10/01/2011	ASIA-1	ASIA-1		11.35, 11.35	ASIA-1

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

WRLFMD/2011/00003

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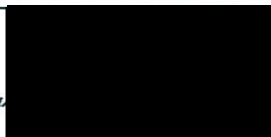
Created by IAH Informatics FMD serotyping Full Results Report

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY RS	Other	PCR Result	Final Result
PKR15	PAK 39/2011	CATTLE, epithelium Collected 10/01/2011	NEG	ASIA-1		22.14, 21.95	ASIA-1
PCRA15	PAK 40/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		23.21, 23.58	FMDV GD
PCRA16	PAK 41/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		37.81, 36.77	NVD
PCRA17	PAK 42/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		30.01, 32.54	FMDV GD
PCRA18	PAK 43/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		27.73, 26.95	FMDV GD
PCRA19	PAK 44/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		20.28, 20.19	FMDV GD
PCRA20	PAK 45/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		19.82, 19.1	FMDV GD
PCRA21	PAK 46/2011	CATTLE, epithelium Collected 10/01/2011	NEG	-ve		23.02, 22.4	FMDV GD
PKR16	PAK 47/2011	CATTLE, epithelium Collected 12/01/2011	NEG	ASIA-1		15.33, 15.67	ASIA-1

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
PKR31	PAK 48/2011	BUFFALO, epithelium Collected 13/01/2011	ASIA-1	ASIA-1		15.33, 15.67	ASIA-1
PKR32	PAK 49/2011	BUFFALO, epithelium Collected 13/01/2011	NEG	ASIA-1		19.66, 18.93	ASIA-1
PKR33	PAK 50/2011	BUFFALO, epithelium Collected 13/01/2011	ASIA-1	ASIA-1		13.6, 14.89	ASIA-1

Validated by



Date

3/3/11

LAB DATA VALIDATION REPORT

LAB DATA AND TESTS FOR BATCH - WRLFMD/2011/00003

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/2010/00077	18/01/2011	0	7.2	1	18/01/2011	POSITIVE		0		
PAK/2010/00078	18/01/2011	0	7.2	1	18/01/2011	POSITIVE		0		
PAK/2010/00079	18/01/2011	0	7	1	18/01/2011	POSITIVE		0		
PAK/2010/00080	18/01/2011	0	7	1	18/01/2011	POSITIVE		0		
PAK/2010/00081	18/01/2011	0	7	1	18/01/2011	POSITIVE		0		
PAK/2010/00082	18/01/2011	0	7.2	1	18/01/2011	POSITIVE		FMDV GD		
PAK/2010/00083	18/01/2011	0.001	7.8	1	18/01/2011	POSITIVE		0		
PAK/2010/00084	18/01/2011	0	7.5	1	18/01/2011	POSITIVE		0		
PAK/2010/00085	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00086	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00087	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00088	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00089	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00090	18/01/2011	1.364	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00091	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		FMDV GD		
PAK/2010/00092	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00093	18/01/2011	0	7.5	1	18/01/2011	POSITIVE		0		
PAK/2010/00094	18/01/2011	0	7.8	1	18/01/2011	POSITIVE		0		
PAK/2010/00095	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00096	18/01/2011	0	7.8	1	18/01/2011	POSITIVE		0		
PAK/2010/00097	18/01/2011	0.001	7.8	1	18/01/2011	POSITIVE		FMDV GD		
PAK/2010/00098	18/01/2011	0	7	1	18/01/2011	POSITIVE		0		
PAK/2010/00099	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00100	18/01/2011	0	7.6	1	18/01/2011	POSITIVE		0		
PAK/2010/00101	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00102	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00103	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00104	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00105	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00106	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1, 0		
PAK/2010/00107	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		FMDV GD		
PAK/2010/00108	18/01/2011	0	7.2	1	18/01/2011	POSITIVE		ASIA-1		
PAK/2010/00109	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1		
PAK/2010/00110	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1		
PAK/2010/00111	18/01/2011	0	7.5	1	18/01/2011	POSITIVE		ASIA-1		
PAK/2010/00112	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2010/00113	18/01/2011	0	7.6	1	18/01/2011	POSITIVE		0		
PAK/2010/00114	18/01/2011	0	7.6	1	18/01/2011	POSITIVE		0		
PAK/2010/00115	18/01/2011	0.001	7.5	1	18/01/2011	NEGATIVE		NVD		
PAK/2010/00116	18/01/2011	0	7.5	1	18/01/2011	POSITIVE		0		
PAK/2011/00001	18/01/2011	0.001	7.5	1	18/01/2011	POSITIVE		0		
PAK/2011/00002	18/01/2011	0	7.5	1	18/01/2011	POSITIVE		0		
PAK/2011/00003	18/01/2011	0	7.5	1	18/01/2011	POSITIVE		0		
PAK/2011/00004	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2011/00005	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		0		
PAK/2011/00006	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1		
PAK/2011/00007	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1		
PAK/2011/00008	18/01/2011	0	7.5	1	18/01/2011	NEGATIVE		ASIA-1		

PAK/2011/00009	18/01/2011	0.001	7.4	1	18/01/2011	POSITIVE		O	
PAK/2011/00010	18/01/2011	0	7.6	1	18/01/2011	POSITIVE		O	
PAK/2011/00011	18/01/2011	0	7.2	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00012	18/01/2011	0	7.2	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00013	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00014	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00015	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00016	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00017	18/01/2011	0.938	7.8	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00018	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00019	18/01/2011	0	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00020	18/01/2011	0.001	7	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00021	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00022	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00023	18/01/2011	0.001	0	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00024	18/01/2011	0.001	7	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00025	18/01/2011	0.001	6.8	1	18/01/2011	NEGATIVE		NVD	
PAK/2011/00026	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00027	18/01/2011	0.001	6	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00028	18/01/2011	0.001	7	1	18/01/2011	NEGATIVE		NVD	
PAK/2011/00029	18/01/2011	0.001	7	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00030	18/01/2011	0.001	7	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00031	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00032	18/01/2011	0	7	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00033	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00034	18/01/2011	0	8	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00035	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00036	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00037	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00038	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00039	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00040	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00041	18/01/2011	0.001	6.8	1	18/01/2011	NEGATIVE		NVD	
PAK/2011/00042	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00043	18/01/2011	0.001	6	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00044	18/01/2011	0.001	6	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00045	18/01/2011	0.001	6.8	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00046	18/01/2011	0.001	6	1	18/01/2011	POSITIVE		FMDV GD	
PAK/2011/00047	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00048	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00049	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	
PAK/2011/00050	18/01/2011	0	7.4	1	18/01/2011	POSITIVE		ASIA-1	

ELISA TEST DATA

WRL REF NO	TEST TYPE	ATTEMPT	HOUR	SEROTYPE	RESULTS	NEGATIVE	DATE VALIDATED	VALIDATED BY
PAK/2010/00077	BTY2	1	24	O	2.7	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00078	BTY1	1	24	O	2.15	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00079	BTY1	1	24	O	2.66	NO		
	OS	1	0	O	0.14	NO		
PAK/2010/00080	BTY1	1	24	O	2.28	NO		
	OS	1	0	NEG	-0.9	YES		

PAK/2010/00081	BTY2	1	24	O	2.8	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00082	OS	1	0	NEG	-0.9	YES		
PAK/2010/00083	BTY1	1	48	O	2.57	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00084	BTY1	1	24	O	2.47	NO		
	OS	1	0	O	1.22	NO		
PAK/2010/00085	BTY1	1	48	O	2.65	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00086	BTY1	1	24	O	2.61	NO		
	OS	1	0	O	0.16	NO		
PAK/2010/00087	BTY1	1	48	O	2.26	NO		
	OS	1	0	O	0.29	NO		
PAK/2010/00088	BTY1	1	24	O	2.32	NO		
	OS	1	0	O	0.11	NO		
PAK/2010/00089	BTY1	1	48	O	2.68	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00090	BTY1	1	24	O	2.54	NO		
	OS	1	0	O	2.49	NO		
PAK/2010/00091	OS	1	0	NEG	-0.9	YES		
PAK/2010/00092	BTY1	1	48	O	2.58	NO		
	OS	1	0	O	0.22	NO		
PAK/2010/00093	BTY1	1	24	O	2.5	NO		
	OS	1	0	O	0.28	NO		
PAK/2010/00094	BTY1	1	24	O	1.49	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00095	BTY1	1	24	O	1.53	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00096	BTY1	1	48	O	2.28	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00097	OS	1	0	NEG	-0.9	YES		
PAK/2010/00098	BTY2	1	24	O	2.43	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00099	BTY1	1	48	O	1.81	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00100	BTY1	1	24	O	2.74	NO		
	OS	1	0	O	0.1	NO		
PAK/2010/00101	BTY1	1	24	O	2.29	NO		
	OS	1	0	O	1.06	NO		
PAK/2010/00102	BTY1	1	24	O	2.42	NO		
	OS	1	0	O	0.55	NO		
PAK/2010/00103	BTY2	1	24	O	2.43	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00104	BTY2	1	24	O	2.29	NO		
	OS	1	0	O	0.16	NO		
PAK/2010/00105	BTY1	1	24	O	2	NO		
	OS	1	0	O	0.13	NO		
PAK/2010/00106	BTY1	1	48	O	2.09	NO		
	BTY1	1	48	ASIA-1	1.18	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00107	OS	1	0	NEG	-0.9	YES		

PAK/2010/00108	BTY1	1	24	ASIA-1	2.6	NO		
	OS	1	0	ASIA-1	0.77	NO		
PAK/2010/00109	BTY1	1	48	ASIA-1	2.86	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00110	BTY1	1	24	ASIA-1	2.04	NO		
	OS	1	0	ASIA-1	2.26	NO		
PAK/2010/00111	BTY1	1	24	ASIA-1	2.86	NO		
	OS	1	0	ASIA-1	1.18	NO		
PAK/2010/00112	BTY2	1	24	O	1.66	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2010/00113	BTY1	1	24	O	2.55	NO		
	OS	1	0	O	2.18	NO		
PAK/2010/00114	BTY1	1	24	O	2.31	NO		
	OS	1	0	O	1.85	NO		
PAK/2010/00115	OS	1	0	NEG	-0.9	YES		
PAK/2010/00116	BTY1	1	48	O	1.5	NO		
	OS	1	0	O	0.83	NO		
PAK/2011/00001	BTY1	1	48	O	1.73	NO		
	OS	1	0	O	0.13	NO		
PAK/2011/00002	BTY1	1	48	O	1.8	NO		
	OS	1	0	O	1.34	NO		
PAK/2011/00003	BTY1	1	24	O	2.6	NO		
	OS	1	0	O	0.21	NO		
PAK/2011/00004	BTY1	1	24	O	1.67	NO		
	OS	1	0	O	0.36	NO		
PAK/2011/00005	BTY1	1	24	O	2.42	NO		
	OS	1	0	O	0.84	NO		
PAK/2011/00006	BTY1	1	24	ASIA-1	1.8	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00007	BTY1	1	24	ASIA-1	2.06	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00008	BTY1	1	24	ASIA-1	1.91	NO		
	OS	1	0	ASIA-1	1.12	NO		
PAK/2011/00009	BTY1	1	48	O	1.94	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00010	BTY1	1	24	O	2.13	NO		
	OS	1	0	O	0.99	NO		
PAK/2011/00011	BTY1	1	24	ASIA-1	1.7	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00012	BTY1	1	24	ASIA-1	1.9	NO		
	OS	1	0	ASIA-1	0.12	NO		
PAK/2011/00013	BTY1	1	24	ASIA-1	1.58	NO		
	OS	1	0	ASIA-1	0.28	NO		
PAK/2011/00014	BTY1	1	24	ASIA-1	1.25	NO		
	OS	1	0	ASIA-1	0.27	NO		
PAK/2011/00015	BTY1	1	24	ASIA-1	0.39	NO		
	OS	1	0	ASIA-1	2.11	NO		
PAK/2011/00016	BTY1	1	48	ASIA-1	1.51	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00017	BTY1	1	24	ASIA-1	1.62	NO		
	OS	1	0	ASIA-1	1.24	NO		

PAK/2011/00018	OS	1	0	NEG	-0.9	YES		
PAK/2011/00019	OS	1	0	NEG	-0.9	YES		
PAK/2011/00020	OS	1	0	NEG	-0.9	YES		
PAK/2011/00021	OS	1	0	NEG	-0.9	YES		
PAK/2011/00022	OS	1	0	NEG	-0.9	YES		
PAK/2011/00023	OS	1	0	NEG	-0.9	YES		
PAK/2011/00024	OS	1	0	NEG	-0.9	YES		
PAK/2011/00025	OS	1	0	NEG	-0.9	YES		
PAK/2011/00026	OS	1	0	NEG	-0.9	YES		
PAK/2011/00027	OS	1	0	NEG	-0.9	YES		
PAK/2011/00028	OS	1	0	NEG	-0.9	YES		
PAK/2011/00029	OS	1	0	NEG	-0.9	YES		
PAK/2011/00030	OS	1	0	NEG	-0.9	YES		
PAK/2011/00031	OS	1	0	NEG	-0.9	YES		
PAK/2011/00032	BTY1	1	48	ASIA-1	1.52	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00033	BTY1	1	48	ASIA-1	0.84	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00034	BTY1	1	48	ASIA-1	1.07	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00035	BTY1	1	24	ASIA-1	1.39	NO		
	OS	1	0	ASIA-1	0.4	NO		
PAK/2011/00036	BTY1	1	24	ASIA-1	1.56	NO		
	OS	1	0	ASIA-1	0.83	NO		
PAK/2011/00037	BTY1	1	24	ASIA-1	1.6	NO		
	OS	1	0	ASIA-1	0.16	NO		
PAK/2011/00038	BTY1	1	24	ASIA-1	1.84	NO		
	OS	1	0	ASIA-1	0.4	NO		
PAK/2011/00039	BTY1	1	48	ASIA-1	1.46	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00040	OS	1	0	NEG	-0.9	YES		
PAK/2011/00041	OS	1	0	NEG	-0.9	YES		
PAK/2011/00042	OS	1	0	NEG	-0.9	YES		
PAK/2011/00043	OS	1	0	NEG	-0.9	YES		
PAK/2011/00044	OS	1	0	NEG	-0.9	YES		
PAK/2011/00045	OS	1	0	NEG	-0.9	YES		
PAK/2011/00046	OS	1	0	NEG	-0.9	YES		
PAK/2011/00047	BTY1	1	24	ASIA-1	1.92	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00048	BTY1	1	48	ASIA-1	1.95	NO		
	OS	1	0	ASIA-1	0.63	NO		
PAK/2011/00049	BTY1	1	48	ASIA-1	1.53	NO		
	OS	1	0	NEG	-0.9	YES		
PAK/2011/00050	BTY1	1	24	ASIA-1	1.7	NO		
	OS	1	0	ASIA-1	0.31	NO		

TISSUE CULTURE TEST DATA

WRL REF NUMBER	TC TEST TYPE	ATTEMPT NUMBER	HOUR OF TUBES	NUMBER READING	DATE READ	DATE VALIDATED	VALIDATED BY
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PAK/2010/00077	BTY1	1	24	1	E			
	BTY1	1	48	1	+			
	BTY2	1	24	5	+			
PAK/2010/00078	BTY1	1	24	5	+			
PAK/2010/00079	BTY1	1	24	5	+			
PAK/2010/00080	BTY1	1	24	5	+			
PAK/2010/00081	BTY1	1	24	5	-			
	BTY1	1	48	1	+			
	BTY2	1	24	5	+			
PAK/2010/00082	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00083	BTY1	1	24	5	VE			
	BTY1	1	48	5	+			
PAK/2010/00084	BTY1	1	24	5	+			
PAK/2010/00085	BTY1	1	24	1	VE			
	BTY1	1	48	5	+			
PAK/2010/00086	BTY1	1	24	5	+			
PAK/2010/00087	BTY1	1	24	1	E			
	BTY1	1	48	5	+			
PAK/2010/00088	BTY1	1	24	5	+			
PAK/2010/00089	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2010/00090	BTY1	1	24	5	+			
PAK/2010/00091	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00092	BTY1	1	24	5	VE			
	BTY1	1	48	5	+			
PAK/2010/00093	BTY1	1	24	5	+			
PAK/2010/00094	BTY1	1	24	5	+			
PAK/2010/00095	BTY1	1	24	5	+			
PAK/2010/00096	BTY1	1	24	4	E			
	BTY1	1	48	4	+			
PAK/2010/00097	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00098	BTY1	1	24	5	-			
	BTY1	1	48	1	+			
	BTY2	1	24	5	+			
PAK/2010/00099	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2010/00100	BTY1	1	24	5	+			
PAK/2010/00101	BTY1	1	24	5	+			
PAK/2010/00102	BTY1	1	24	5	+			
PAK/2010/00103	BTY1	1	24	1	VE?			
	BTY1	1	48	2	+			
	BTY2	1	24	5	+			
PAK/2010/00104	BTY1	1	24	5	-			
	BTY1	1	48	1	+			
	BTY2	1	24	5	+			

PAK/2010/00105	BTY1	1	24	3	+			
	BTY1	1	48	2	+			
PAK/2010/00106	BTY1	1	24	5	VE			
	BTY1	1	48	3	+			
	BTY1	1	72	1	+			
PAK/2010/00107	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00108	BTY1	1	24	5	+			
PAK/2010/00109	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2010/00110	BTY1	1	24	5	+			
PAK/2010/00111	BTY1	1	24	5	+			
PAK/2010/00112	BTY1	1	24	5	-			
	BTY1	1	48	2	+			
	BTY2	1	24	5	+			
PAK/2010/00113	BTY1	1	24	5	+			
PAK/2010/00114	BTY1	1	24	5	+			
PAK/2010/00115	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2010/00116	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2011/00001	BTY1	1	24	5	VE			
	BTY1	1	48	5	+			
PAK/2011/00002	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2011/00003	BTY1	1	24	5	+			
PAK/2011/00004	BTY1	1	24	5	+			
PAK/2011/00005	BTY1	1	24	5	+			
PAK/2011/00006	BTY1	1	24	5	+			
PAK/2011/00007	BTY1	1	24	5	+			
PAK/2011/00008	BTY1	1	24	5	+			
PAK/2011/00009	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2011/00010	BTY1	1	24	5	+			
PAK/2011/00011	BTY1	1	24	5	+			
PAK/2011/00012	BTY1	1	24	5	+			
PAK/2011/00013	BTY1	1	24	5	+			
PAK/2011/00014	BTY1	1	24	5	+			
PAK/2011/00015	BTY1	1	24	5	+			
PAK/2011/00016	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
PAK/2011/00017	BTY1	1	24	5	+			
PAK/2011/00018	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00019	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			

PAK/2011/00020	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00021	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00022	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00023	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00024	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00025	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00026	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00027	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00028	BTY1	1	24	0	-			
	BTY1	1	48	0	-			
	BTY1	1	72	0	-			
	BTY1	1	96	0	-			
PAK/2011/00029	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00030	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00031	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY1	1	96	5	-			
PAK/2011/00032	BTY1	1	24	5	VE			
	BTY1	1	48	5	+			
PAK/2011/00033	BTY1	1	24	5	VVE			
	BTY1	1	48	5	+			
PAK/2011/00034	BTY1	1	24	1	VE			
	BTY1	1	48	5	+			

PAK/2011/00035	BTY1	1	24	5	+		
PAK/2011/00036	BTY1	1	24	5	+		
PAK/2011/00037	BTY1	1	24	5	+		
PAK/2011/00038	BTY1	1	24	5	+		
PAK/2011/00039	BTY1	1	24	5	E		
	BTY1	1	48	5	+		
PAK/2011/00040	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
PAK/2011/00041	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
PAK/2011/00042	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	BTY2	1	24	5	-		
	BTY2	1	48	5	-		
PAK/2011/00043	BTY1	1	24	5	VVE?		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
PAK/2011/00044	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
PAK/2011/00045	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
PAK/2011/00046	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
PAK/2011/00047	BTY1	1	24	5	+		
PAK/2011/00048	BTY1	1	24	5	E		
	BTY1	1	48	5	+		
PAK/2011/00049	BTY1	1	24	5	VE		
	BTY1	1	48	5	+		
PAK/2011/00050	BTY1	1	24	5	+		

CT VALUES

WRL REF NUMBER	TEST NUMBER	WRL TEST REF	CT VALUE	CT MATERIAL	CT VIRUS	DATE VALIDATED	VALIDATED BY
PAK/2010/00077	1	WRL 0689	17	OS	FMD		
	2	WRL 0689	16.79	OS	FMD		
PAK/2010/00078	1	WRL 0689	23.07	OS	FMD		
	2	WRL 0689	22.43	OS	FMD		
PAK/2010/00079	1	WRL 0689	23.07	OS	FMD		
	2	WRL 0689	22.43	OS	FMD		
PAK/2010/00080	1	WRL 0689	21.83	OS	FMD		
	2	WRL 0689	21.36	OS	FMD		

PAK/2010/00081	1	WRL 0689	28.73	OS	FMD	
	2	WRL 0689	28.3	OS	FMD	
PAK/2010/00082	1	WRL 0689	26.2	OS	FMD	
	2	WRL 0689	25.89	OS	FMD	
PAK/2010/00083	1	WRL 0689	23.72	OS	FMD	
	2	WRL 0689	23.78	OS	FMD	
PAK/2010/00084	1	WRL 0689	12.74	OS	FMD	
	2	WRL 0689	13.9	OS	FMD	
PAK/2010/00085	1	WRL 0689	17.99	OS	FMD	
	2	WRL 0689	18.36	OS	FMD	
PAK/2010/00086	1	WRL 0689	12.3	OS	FMD	
	2	WRL 0689	13.29	OS	FMD	
PAK/2010/00087	1	WRL 0689	17.34	OS	FMD	
	2	WRL 0689	17.3	OS	FMD	
PAK/2010/00088	1	WRL 0689	14.60	OS	FMD	
	2	WRL 0689	15.28	OS	FMD	
PAK/2010/00089	1	WRL 0691	16.08	OS	FMD	
	2	WRL 0691	16.08	OS	FMD	
PAK/2010/00090	1	WRL 0691	8.7	OS	FMD	
	2	WRL 0691	8.18	OS	FMD	
PAK/2010/00091	1	WRL 0691	34.59	OS	FMD	
	2	WRL 0691	31.26	OS	FMD	
PAK/2010/00092	1	WRL 0691	13.59	OS	FMD	
	2	WRL 0691	12.95	OS	FMD	
PAK/2010/00093	1	WRL 0694	15.23	OS	FMD	
	2	WRL 0694	15.29	OS	FMD	
PAK/2010/00094	1	WRL 0694	25.63	OS	FMD	
	2	WRL 0694	25.89	OS	FMD	
PAK/2010/00095	1	WRL 0694	14.92	OS	FMD	
	2	WRL 0694	14.98	OS	FMD	
PAK/2010/00096	1	WRL 0694	14.92	OS	FMD	
	2	WRL 0694	14.98	OS	FMD	
PAK/2010/00097	1	WRL 0694	30.93	OS	FMD	
	2	WRL 0694	30.42	OS	FMD	
PAK/2010/00098	1	WRL 0694	24.47	OS	FMD	
	2	WRL 0694	24.01	OS	FMD	
PAK/2010/00099	1	WRL 0694	18.84	OS	FMD	
	2	WRL 0694	18.22	OS	FMD	
PAK/2010/00100	1	WRL 0694	16.24	OS	FMD	
	2	WRL 0694	16.63	OS	FMD	
PAK/2010/00101	1	WRL 0694	13.91	OS	FMD	
	2	WRL 0694	14.67	OS	FMD	
PAK/2010/00102	1	WRL 0694	13.11	OS	FMD	
	2	WRL 0694	13.42	OS	FMD	
PAK/2010/00103	1	WRL 0694	22.79	OS	FMD	
	2	WRL 0694	22.39	OS	FMD	
PAK/2010/00104	1	WRL 0694	18.66	OS	FMD	
	2	WRL 0694	18.29	OS	FMD	
PAK/2010/00105	1	WRL 0695	20.83	OS	FMD	
	2	WRL 0695	20.36	OS	FMD	
PAK/2010/00106	1	WRL 0695	19.74	OS	FMD	
	2	WRL 0695	19.68	OS	FMD	
PAK/2010/00107	1	WRL 0695	22.38	OS	FMD	
	2	WRL 0695	22.18	OS	FMD	

PAK/2010/00108	1	WRL 0695	15.59	OS	FMD		
	2	WRL 0695	14.44	OS	FMD		
PAK/2010/00109	1	WRL 0695	17.13	OS	FMD		
	2	WRL 0695	16.91	OS	FMD		
PAK/2010/00110	1	WRL 0695	10.25	OS	FMD		
	2	WRL 0695	11.19	OS	FMD		
PAK/2010/00111	1	WRL 0695	11.83	OS	FMD		
	2	WRL 0695	11.8	OS	FMD		
PAK/2010/00112	1	WRL 0695	16	OS	FMD		
	2	WRL 0695	15.71	OS	FMD		
PAK/2010/00113	1	WRL 0695	11.5	OS	FMD		
	2	WRL 0695	12.5	OS	FMD		
PAK/2010/00114	1	WRL 0695	12.83	OS	FMD		
	2	WRL 0695	12.89	OS	FMD		
PAK/2010/00115	1	WRL 0695	36	OS	FMD		
	2	WRL 0695	36.47	OS	FMD		
PAK/2010/00116	1	WRL 0696	17.59	OS	FMD		
	2	WRL 0696	16.95	OS	FMD		
PAK/2011/00001	1	WRL 0696	19.25	OS	FMD		
	2	WRL 0696	20.56	OS	FMD		
PAK/2011/00002	1	WRL 0696	13.76	OS	FMD		
	2	WRL 0696	13.96	OS	FMD		
PAK/2011/00003	1	WRL 0696	15.38	OS	FMD		
	2	WRL 0696	15	OS	FMD		
PAK/2011/00004	1	WRL 0696	13.31	OS	FMD		
PAK/2011/00005	1	WRL 0696	13.08	OS	FMD		
	2	WRL 0696	13.29	OS	FMD		
PAK/2011/00006	1	WRL 0696	17.28	OS	FMD		
PAK/2011/00007	1	WRL 0696	17.31	OS	FMD		
PAK/2011/00008	1	WRL 0719	50	OS	FMD		
	2	WRL 0719	50	OS	FMD		
PAK/2011/00009	1	WRL 0696	17.27	OS	FMD		
PAK/2011/00010	1	WRL 0696	11.58	OS	FMD		
PAK/2011/00011	1	WRL 0696	18.35	OS	FMD		
	2	WRL 0696	19.9	OS	FMD		
PAK/2011/00012	1	WRL 0702	15.17	OS	FMD		
	2	WRL 0702	14.71	OS	FMD		
PAK/2011/00013	1	WRL 0705	12.63	OS	FMD		
	2	WRL 0705	12.77	OS	FMD		
PAK/2011/00014	1	WRL 0705	9.16	OS	FMD		
	2	WRL 0705	9.85	OS	FMD		
PAK/2011/00015	1	WRL 0705	10.95	OS	FMD		
	2	WRL 0705	10.55	OS	FMD		
PAK/2011/00016	1	WRL 0705	13.68	OS	FMD		
	2	WRL 0705	13.06	OS	FMD		
PAK/2011/00017	1	WRL 0705	9.43	OS	FMD		
	2	WRL 0705	9.61	OS	FMD		
PAK/2011/00018	1	WRL 0705	22.78	OS	FMD		
	2	WRL 0705	22.91	OS	FMD		
PAK/2011/00019	1	WRL 0705	20.69	OS	FMD		
	2	WRL 0705	19.86	OS	FMD		
PAK/2011/00020	1	WRL 0705	18.78	OS	FMD		
	2	WRL 0705	18.88	OS	FMD		
PAK/2011/00021	1	WRL 0708	24.81	OS	FMD		

	2	WRL 0708	25.42	OS	FMD		
PAK/2011/00022	1	WRL 0708	21.71	OS	FMD		
	2	WRL 0708	21.03	OS	FMD		
PAK/2011/00023	1	WRL 0708	20.04	OS	FMD		
	2	WRL 0708	20.51	OS	FMD		
PAK/2011/00024	1	WRL 0708	23.06	OS	FMD		
	2	WRL 0708	22.94	OS	FMD		
PAK/2011/00025	1	WRL 0708	50	OS	FMD		
	2	WRL 0708	35.43	OS	FMD		
PAK/2011/00026	1	WRL 0710	26.76	OS	FMD		
	2	WRL 0710	27.28	OS	FMD		
PAK/2011/00027	1	WRL 0710	21.3	OS	FMD		
	2	WRL 0710	22.01	OS	FMD		
PAK/2011/00028	1	WRL 0712	35.8	OS	FMD		
	2	WRL 0712	34.69	OS	FMD		
PAK/2011/00029	1	WRL 0710	24.96	OS	FMD		
	2	WRL 0710	24.05	OS	FMD		
PAK/2011/00030	1	WRL 0712	30.89	OS	FMD		
	2	WRL 0712	31.06	OS	FMD		
PAK/2011/00031	1	WRL 0713	18.4	OS	FMD		
	2	WRL 0713	20.19	OS	FMD		
PAK/2011/00032	1	WRL 0713	17.29	OS	FMD		
	2	WRL 0713	16.99	OS	FMD		
PAK/2011/00033	1	WRL 0713	21.78	OS	FMD		
	2	WRL 0713	22.31	OS	FMD		
PAK/2011/00034	1	WRL 0713	12.34	OS	FMD		
	2	WRL 0713	14.16	OS	FMD		
PAK/2011/00035	1	WRL 0713	11.27	OS	FMD		
	2	WRL 0713	12.12	OS	FMD		
PAK/2011/00036	1	WRL 0713	8.2	OS	FMD		
	2	WRL 0713	9.94	OS	FMD		
PAK/2011/00037	1	WRL 0713	14.45	OS	FMD		
	2	WRL 0713	14.38	OS	FMD		
PAK/2011/00038	1	WRL 0713	11.35	OS	FMD		
	2	WRL 0713	11.35	OS	FMD		
PAK/2011/00039	1	WRL 0713	22.14	OS	FMD		
	2	WRL 0713	21.95	OS	FMD		
PAK/2011/00040	1	WRL 0713	23.21	OS	FMD		
	2	WRL 0713	23.58	OS	FMD		
PAK/2011/00041	1	WRL 0713	37.81	OS	FMD		
	2	WRL 0713	36.77	OS	FMD		
PAK/2011/00042	1	WRL 0713	30.01	OS	FMD		
	2	WRL 0713	32.54	OS	FMD		
PAK/2011/00043	1	WRL 0715	27.73	OS	FMD		
	2	WRL 0715	26.95	OS	FMD		
PAK/2011/00044	1	WRL 0715	20.28	OS	FMD		
	2	WRL 0715	20.19	OS	FMD		
PAK/2011/00045	1	WRL 0715	19.82	OS	FMD		
	2	WRL 0715	19.1	OS	FMD		
PAK/2011/00046	1	WRL 0715	23.02	OS	FMD		
	2	WRL 0715	22.4	OS	FMD		
PAK/2011/00047	1	WRL 0715	15.33	OS	FMD		
	2	WRL 0715	15.67	OS	FMD		
PAK/2011/00048	1	WRL 0715	15.33	OS	FMD		

	2	WRL 0715	15.67	OS	FMD		
PAK/2011/00049	1	WRL 0715	19.66	OS	FMD		
	2	WRL 0715	18.93	OS	FMD		
PAK/2011/00050	1	WRL 0715	13.6	OS	FMD		
	2	WRL 0715	14.89	OS	FMD		

Validated by



Date 3/3/11