

FMD Detection And Serotyping Results Report

INSTITUTE FOR ANIMAL HEALTH

Director: Professor Martin W. Shirley, PhD

Lab Reference WRL Batch Number: WRLFMD/2010/00009

PIRBRIGHT LABORATORY

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Sender
Details:



Date Received: 05/03/2010 Country Of Origin: SPECIAL ADMIN. REGI Date Tests Completed: 17/03/2010

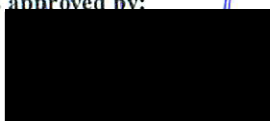
Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
FMD 01/10 D-10-496 (1)	HKN 1/2010	PIG, epithelium/nasal, Collected 05/02/2010	POS	O
FMD 01/10 D-10-496 (2)	HKN 2/2010	PIG, epithelium/nail, Collected 05/02/2010	POS	NVD
FMD 02/10 D-10-545 (1)	HKN 3/2010	PIG, epithelium/nasal, Collected 10/02/2010	POS	NVD
FMD 02/10 D-10-545 (2)	HKN 4/2010	PIG, epithelium/nasal, Collected 10/02/2010	POS	O
FMD 02/10 D-10-545 (3)	HKN 5/2010	PIG, epithelium/nail, Collected 10/02/2010	POS	NVD
FMD 02/10 D-10-545 (4)	HKN 6/2010	PIG, epithelium/nail, Collected 10/02/2010	POS	O
FMD 03/10 D-10-729 (1)	HKN 7/2010	PIG, epithelium/nasal, Collected 23/02/2010	POS	O
FMD 03/10 D-10-729 (2)	HKN 8/2010	PIG, epithelium/nail, Collected 23/02/2010	POS	O
FMD 04/10 D-10-751 (1)	HKN 9/2010	PIG, heart, Collected 24/02/2010	POS	O
FMD 04/10 D-10-751 (2)	HKN 10/2010	PIG, epithelium/nail, Collected 24/02/2010	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)

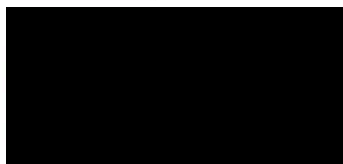
Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
FMD 04/10 D-10-751 (3)	HKN 11/2010	PIG, epithelium/mouth/tongue, Collected 24/02/2010	POS	O
FMD 04/10 D-10-751 (4)	HKN 12/2010	PIG, pericardial fluid, Collected 24/02/2010	POS	O
FMD 05/10 D-10-752 (1)	HKN 13/2010	PIG, epithelium/nail, Collected 24/02/2010	POS	O
FMD 05/10 D-10-752 (2)	HKN 14/2010	PIG, epithelium/nail, Collected 24/02/2010	POS	O
FMD 05/10 D-10-752 (3)	HKN 15/2010	PIG, epithelium/nail, Collected 24/02/2010	POS	O
FMD 06/10 D-10-817 (1)	HKN 16/2010	PIG, epithelium/nail, Collected 01/03/2010	POS	NVD
FMD 06/10 D-10-817 (2)	HKN 17/2010	PIG, epithelium/nail, Collected 01/03/2010	POS	NVD
FMD 06/10 D-10-817 (3)	HKN 18/2010	PIG, epithelium/nail, Collected 01/03/2010	POS	O
FMD 07/10 D-10-825	HKN 19/2010	PIG, tissue, Collected 03/03/2010	POS	O

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.byrom@bbsrc.ac.uk)

Date:

18 / 3 / 10

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)

LAB DATA VALIDATION REPORT
LAB DATA AND TESTS FOR BATCH - WRLFMD/2010/00009

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
HKN/2010/00001	05/03/2010	0.001	7	1	05/03/2010	POSITIVE		0		
HKN/2010/00002	05/03/2010	0.001	7	1	05/03/2010	POSITIVE		FMDV GD		
HKN/2010/00003	05/03/2010	0.164	7	1	05/03/2010	POSITIVE		FMDV GD		
HKN/2010/00004	05/03/2010	0.001	7	1	05/03/2010	POSITIVE		0		
HKN/2010/00005	05/03/2010	0.001	7	1	05/03/2010	POSITIVE		FMDV GD		
HKN/2010/00006	05/03/2010	0.001	7	1	05/03/2010	POSITIVE		0		
HKN/2010/00007	05/03/2010	0.001	7.2	1	05/03/2010	POSITIVE		0		
HKN/2010/00008	05/03/2010	0.194	7.2	1	05/03/2010	POSITIVE		0		
HKN/2010/00009	05/03/2010	0.377	7.2	1	05/03/2010	POSITIVE		0		
HKN/2010/00010	05/03/2010	0.001	7.2	1	05/03/2010	POSITIVE		0		
HKN/2010/00011	05/03/2010	0.001	7.2	1	05/03/2010	POSITIVE		0		
HKN/2010/00012	05/03/2010	0.001	7	1	05/03/2010	POSITIVE		0		
HKN/2010/00013	05/03/2010	0.385	7.4	1	05/03/2010	POSITIVE		0		
HKN/2010/00014	05/03/2010	0.295	7.4	1	05/03/2010	POSITIVE		0		
HKN/2010/00015	05/03/2010	0.202	7.2	1	05/03/2010	POSITIVE		0		
HKN/2010/00016	05/03/2010	0.229	7.4	1	05/03/2010	POSITIVE		FMDV GD		
HKN/2010/00017	05/03/2010	0.486	7.4	1	05/03/2010	POSITIVE		FMDV GD		
HKN/2010/00018	05/03/2010	0.205	7.4	1	05/03/2010	POSITIVE		0		
HKN/2010/00019	05/03/2010	0.383	7.4	1	05/03/2010	POSITIVE		0		

ELISA TEST DATA

WRL REF NO	TEST TYPE	ATTEMPT	HOUR	SEROTYPE	RESULTS	NEGATIVE	DATE VALIDATED	VALIDATED BY
HKN/2010/00001	BTY1	1	72	O	0.55	NO		
	OS	1	0	NEG	-0.9	YES		
HKN/2010/00002	RS1	1	72	O	0.56	NO		
HKN/2010/00003	OS	1	0	NEG	-0.9	YES		
HKN/2010/00004	BTY1	1	72	O	0.73	NO		
	OS	1	0	NEG	-0.9	YES		
	RS1	1	48	O	1.06	NO		
HKN/2010/00005	OS	1	0	NEG	-0.9	YES		
HKN/2010/00006	BTY1	1	72	O	0.36	NO		
	OS	1	0	NEG	-0.9	YES		
	RS1	1	72	O	0.82	NO		
HKN/2010/00007	BTY1	1	48	O	0.74	NO		
	OS	1	0	NEG	-0.9	YES		
	RS1	1	48	O	0.71	NO		
HKN/2010/00008	BTY1	1	48	O	0.9	NO		
	OS	1	0	O	0.34	NO		
	RS1	1	48	O	0.7	NO		
HKN/2010/00009	BTY2	1	24	O	1.45	NO		
	OS	1	0	O	0.3	NO		
HKN/2010/00010	BTY1	1	48	O	1.46	NO		
	OS	1	0	NEG	-0.9	YES		
	RS1	1	48	O	1.3	NO		
HKN/2010/00011	BTY1	1	72	O	20.35	NO		

	OS	1	0	NEG	-0.9	YES		
	RS1	1	72	O	19.82	NO		
HKN/2010/00012	OF	1	0	O	0.23	NO		
HKN/2010/00013	BTY1	1	48	O	0.97	NO		
	OS	1	0	NEG	-0.9	YES		
HKN/2010/00014	BTY1	1	48	O	1.18	NO		
	OS	1	0	O	0.11	NO		
	RS1	1	48	O	0.92	NO		
HKN/2010/00015	BTY1	1	48	O	0.92	NO		
	OS	1	0	NEG	-0.9	YES		
	RS1	1	72	O	0.91	NO		
HKN/2010/00016	OS	1	0	NEG	-0.9	YES		
HKN/2010/00017	OS	1	0	NEG	-0.9	YES		
HKN/2010/00018	OS	1	0	O	0.12	NO		
HKN/2010/00019	BTY1	1	48	O	0.37	NO		
	OS	1	0	O	0.2	NO		
	RS1	1	48	O	0.8	NO		

TISSUE CULTURE TEST DATA

WRL REF NUMBER	TC TEST TYPE	ATTEMPT NUMBER	HOUR	NUMBER OF TUBES	READING	DATE READ	DATE VALIDATED	VALIDATED BY
HKN/2010/00001	BTY1	1	24	5	-			
	BTY1	1	48	5	E			
	BTY1	1	72	5	+			
HKN/2010/00002	RS1	1	24	5	-			
	RS1	1	48	5	E			
	RS1	1	72	5	+			
	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
HKN/2010/00003	BTY2	1	24	5	-			
	BTY2	1	48	5	-			
	RS1	1	24	5	-			
	RS1	1	48	5	-			
	RS1	1	72	5	-			
	RS2	1	24	5	-			
	RS2	1	48	5	-			
	BTY1	1	24	5	-			
	BTY1	1	48	5	CONTAM			
	BTY2	1	24	5	-			
HKN/2010/00004	BTY2	1	48	5	-			
	RS1	1	24	5	-			
	RS1	1	48	5	CONTAM			
	RS2	1	24	5	-			
	RS2	1	48	5	-			
	BTY1	1	24	5	-			
	BTY1	1	48	5	E			
HKN/2010/00005	BTY1	1	72	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	+			
	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			

	BTY2	1	24	5	-			
	BTY2	1	48	5	-			
	RS1	1	24	5	-			
	RS1	1	48	5	-			
	RS1	1	72	5	-			
	RS2	1	24	5	-			
	RS2	1	48	5	-			
HKN/2010/00006	BTY1	1	24	5	-			
	BTY1	1	48	5	E			
	BTY1	1	72	5	+			
	RS1	1	24	5	-			
	RS1	1	48	1	+			
	RS1	1	72	3	+			
HKN/2010/00007	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	+			
HKN/2010/00008	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	+			
HKN/2010/00009	BTY1	1	24	5	-			
	BTY1	1	48	1	E			
	BTY1	1	72	1	+			
	BTY2	1	24	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	-			
	RS1	1	72	5	-			
	RS2	1	24	5	-			
	RS2	1	48	5	-			
HKN/2010/00010	BTY1	1	24	5	E			
	BTY1	1	48	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	+			
HKN/2010/00011	BTY1	1	24	5	-			
	BTY1	1	48	5	E			
	BTY1	1	72	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	-			
	RS1	1	72	1	+			
HKN/2010/00012	BTY1	1	24	5	-			
	BTY1	1	48	5	-			
	BTY1	1	72	5	-			
	BTY2	1	24	5	-			
	BTY2	1	48	5	-			
	RS1	1	24	5	-			
	RS1	1	48	5	-			
	RS1	1	72	5	-			
	RS2	1	24	5	-			
	RS2	1	48	5	-			
HKN/2010/00013	BTY1	1	24	5	-			
	BTY1	1	48	5	+			
	RS1	1	24	5	-			
	RS1	1	48	5	-			

HKN/2010/00014	BTY1	1	24	5	E		
	BTY1	1	48	5	+		
	RS1	1	24	5	-		
	RS1	1	48	5	+		
HKN/2010/00015	BTY1	1	24	5	E		
	BTY1	1	48	5	+		
	RS1	1	24	5	-		
	RS1	1	48	5	VE		
	RS1	1	72	5	+		
HKN/2010/00016	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY2	1	24	5	-		
	BTY2	1	48	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS2	1	24	5	-		
	RS2	1	48	5	-		
HKN/2010/00017	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY2	1	24	5	-		
	BTY2	1	48	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS2	1	24	5	-		
	RS2	1	48	5	-		
HKN/2010/00018	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY2	1	24	5	-		
	BTY2	1	48	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS2	1	24	5	-		
	RS2	1	48	5	-		
HKN/2010/00019	BTY1	1	24	5	-		
	BTY1	1	48	3	+-		
	RS1	1	24	1	VE		
	RS1	1	48	1	+		

CT VALUES

WRL REF NUMBER	TEST NUMBER	WRL TEST REF	CT VALUE	CT MATERIAL	CT VIRUS	DATE VALIDATED	VALIDATED BY
HKN/2010/00001	1	WRL 0522	24.29	OS	FMD		
	2	WRL 0522	24.13	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	37.1	OS	SVD		
HKN/2010/00002	1	WRL 0522	20.23	OS	FMD		
	2	WRL 0522	20.42	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	50	OS	SVD		
HKN/2010/00003	1	WRL 0522	21.56	OS	FMD		
	2	WRL 0522	21.6	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	50	OS	SVD		
HKN/2010/00004	1	WRL 0522	19.73	OS	FMD		

	2	WRL 0522	20.36	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	50	OS	SVD		
HKN/2010/00005	1	WRL 0522	20.16	OS	FMD		
	2	WRL 0522	20.33	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	50	OS	SVD		
HKN/2010/00006	1	WRL 0522	21.25	OS	FMD		
	2	WRL 0522	21.2	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	50	OS	SVD		
HKN/2010/00007	1	WRL 0522	16.73	OS	FMD		
	2	WRL 0522	16.67	OS	FMD		
	3	WRL 0522	50	OS	SVD		
	4	WRL 0522	50	OS	SVD		
HKN/2010/00008	1	WRL 0523	14.16	OS	FMD		
	2	WRL 0523	13.66	OS	FMD		
	3	WRL 0523	50	OS	SVD		
	4	WRL 0523	50	OS	SVD		
HKN/2010/00009	1	WRL 0523	18.79	OS	FMD		
	2	WRL 0523	18.05	OS	FMD		
	3	WRL 0523	50	OS	SVD		
	4	WRL 0523	50	OS	SVD		
HKN/2010/00010	1	WRL 0523	20.24	OS	FMD		
	2	WRL 0523	18.66	OS	FMD		
	3	WRL 0523	50	OS	SVD		
	4	WRL 0523	50	OS	SVD		
HKN/2010/00011	1	WRL 0523	20.35	OS	FMD		
	2	WRL 0523	19.82	OS	FMD		
	3	WRL 0523	50	OS	SVD		
	4	WRL 0523	50	OS	SVD		
HKN/2010/00012	1	WRL 0523	25.25	OS	FMD		
	2	WRL 0523	26.67	OS	FMD		
	3	WRL 0523	50	OS	SVD		
	4	WRL 0523	50	OS	SVD		
HKN/2010/00013	1	WRL 0521	21.06	OS	FMD		
	2	WRL 0521	17.51	OS	FMD		
	3	WRL 0521	50	OS	SVD		
	4	WRL 0521	50	OS	SVD		
HKN/2010/00014	1	WRL 0521	18.59	OS	FMD		
	2	WRL 0521	18.69	OS	FMD		
	3	WRL 0521	50	OS	SVD		
	4	WRL 0521	50	OS	SVD		
HKN/2010/00015	1	WRL 0521	17.54	OS	FMD		
	2	WRL 0521	17.8	OS	FMD		
	3	WRL 0521	50	OS	SVD		
	4	WRL 0521	50	OS	SVD		
HKN/2010/00016	1	WRL 0521	21.84	OS	FMD		
	2	WRL 0521	22.14	OS	FMD		
	3	WRL 0521	50	OS	SVD		
	4	WRL 0521	50	OS	SVD		
HKN/2010/00017	1	WRL 0521	28.19	OS	FMD		
	2	WRL 0521	28.37	OS	FMD		
	3	WRL 0521	50	OS	SVD		

HKN/2010/00018

4	WRL 0521	50	OS	SVD		
1	WRL 0521	15.96	OS	FMD		
2	WRL 0521	16.48	OS	FMD		
3	WRL 0521	50	OS	SVD		
4	WRL 0521	50	OS	SVD		
HKN/2010/00019						
1	WRL 0521	15	OS	FMD		
2	WRL 0521	15.16	OS	FMD		
3	WRL 0521	50	OS	SVD		
4	WRL 0521	50	OS	SVD		

Validated by [REDACTED]

Date 17/03/2010

FMD DETECTION AND SEROTYPING FULL RESULTS

BATCH NUMBER - WRLFMD/2010/00009 DATE RECEIVED AT SITE - 05/03/2010 FROM HONG KONG, SPECIAL ADMIN. REGI
 SENDER DETAILS [REDACTED]

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA			PCR Result	Final Result
				BTY	RS	Other		
FMD 01/10 D-10-496 (1)	HKN 1/2010	PIG, epithelium/nasal Collected 05/02/2010	NEG	O	O		24.29, 24.13, 50(SVD), 37.1(SVD)	O
FMD 01/10 D-10-496 (2)	HKN 2/2010	PIG, epithelium/nail Collected 05/02/2010	NEG	-ve	-ve		20.23, 20.42, 50(SVD), 50(SVD)	FMDV GD
FMD 02/10 D-10-545 (1)	HKN 3/2010	PIG, epithelium/nasal Collected 10/02/2010	NEG	-ve	-ve		21.56, 21.6, 50(SVD), 50(SVD)	FMDV GD
FMD 02/10 D-10-545 (2)	HKN 4/2010	PIG, epithelium/nasal Collected 10/02/2010	NEG	O	O		19.73, 20.36, 50(SVD), 50(SVD)	O
FMD 02/10 D-10-545 (3)	HKN 5/2010	PIG, epithelium/nail Collected 10/02/2010	NEG	-ve	-ve		20.16, 20.33, 50(SVD), 50(SVD)	FMDV GD
FMD 02/10 D-10-545 (4)	HKN 6/2010	PIG, epithelium/nail Collected 10/02/2010	NEG	O	O		21.25, 21.2, 50(SVD), 50(SVD)	O

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

WRLFMD/2010/00009

IAHB/2010/00420

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17/03 2010 15:41 FAX 01483232743

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA			PCR Result	Final Result
				BTY	RS	Other		
FMD 03/10 D-10-729 (1)	HKN 7/2010	PIG, epithelium/nasal Collected 22/02/2010 309.	NEG	0	0		16.73, 16.67, 50(SVD), 50(SVD)	0
FMD 03/10 D-10-729 (2)	HKN 8/2010	PIG, epithelium/nail Collected 22/02/2010 309.	0	0	0		14.16, 13.66, 50(SVD), 50(SVD)	0
FMD 04/10 D-10-751 (1)	HKN 9/2010	PIG, heart Collected 24/02/2010	0	0	-ve		18.79, 18.05, 50(SVD), 50(SVD)	0
FMD 04/10 D-10-751 (2)	HKN 10/2010	PIG, epithelium/nail Collected 24/02/2010	NEG	0	0		20.24, 18.66, 50(SVD), 50(SVD)	0
FMD 04/10 D-10-751 (3)	HKN 11/2010	PIG, epithelium/mouth/tongue Collected 24/02/2010	NEG	0	0		20.35, 19.82, 50(SVD), 50(SVD)	0
FMD 04/10 D-10-751 (4)	HKN 12/2010	PIG, pericardial fluid Collected 24/02/2010		-ve	-ve	0	25.25, 26.67, 50(SVD), 50(SVD)	0
FMD 05/10 D-10-752 (1)	HKN 13/2010	PIG, epithelium/nail Collected 24/02/2010	NEG	0	-ve		21.06, 17.51, 50(SVD), 50(SVD)	0
FMD 05/10 D-10-752 (2)	HKN 14/2010	PIG, epithelium/nail Collected 24/02/2010	0	0	0		18.59, 18.69, 50(SVD), 50(SVD)	0
FMD 05/10 D-10-752 (3)	HKN 15/2010	PIG, epithelium/nail Collected 24/02/2010	NEG	0	0		17.54, 17.8, 50(SVD), 50(SVD)	0

NVD - No Virus Detected

POS - FMDV Genome Detected

NEG - No FMDV Genome Detected

FMDVGD - FMDV Genome Detected

WRLFMD/2010/00009

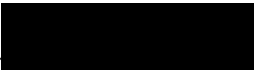
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Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA			PCR Result	Final Result
				BTY	RS	Other		
FMD 06/10 D-10-817 (1)	HKN 16/2010	PIG, epithelium/nail Collected 01/03/2010	NEG	-ve	-ve		21.84, 22.14, 50(SVD), 50(SVD)	FMDV GD
FMD 06/10 D-10-817 (2)	HKN 17/2010	PIG, epithelium/nail Collected 01/03/2010	NEG	-ve	-ve		28.19, 28.37, 50(SVD), 50(SVD)	FMDV GD
FMD 06/10 D-10-817 (3)	HKN 18/2010	PIG, epithelium/nail Collected 01/03/2010	O	-ve	-ve		15.96, 16.48, 50(SVD), 50(SVD)	O
FMD 07/10 D-10-825	HKN 19/2010	PIG, tissue Collected 03/03/2010	O	O	O		15, 15.16, 50(SVD), 50(SVD)	O

Validated by 

Date 17/03/2010

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

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