

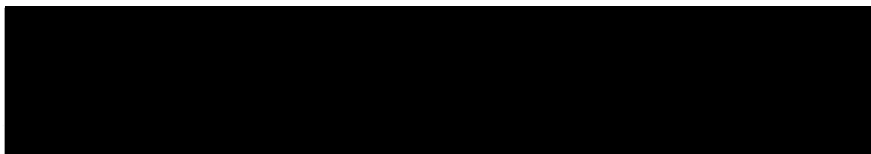


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## FMD Detection And Serotyping Results

Lab Reference WRL batch Number: WRLFMD/2012/00016

Sender Details:



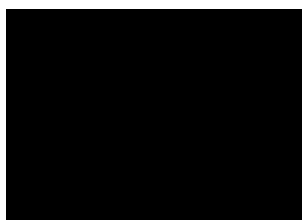
Date Received: 30/03/2012

Country of Origin: BAHRAIN

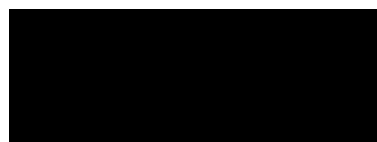
Dear Dr Fajer Al Salloom,

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:

20/4/12



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 (gareth.shimmon@iah.ac.uk). IAH actively seeks and appreciates feedback, if you would like to offer feedback please complete the WRLFMD survey: <http://www.surveymonkey.com/s/WRLFMD>

## FMD Detection And Serotyping Results Report

INSTITUTE FOR ANIMAL HEALTH

Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath

Lab Reference WRL Batch Number: WRLFMD/2012/00016

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Details:



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Website: [www.iah.bbsrc.ac.uk](http://www.iah.bbsrc.ac.uk)

Date Received: 30/03/2012 Country Of Origin: BAHRAIN

Date Tests Completed 20/04/2012

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
0561	BAR 1/2012	CATTLE, serum, Collected 05/03/2012	NEG	NVD
0562	BAR 2/2012	CATTLE, serum, Collected 05/03/2012	NEG	NVD
0564	BAR 3/2012	CATTLE, serum, Collected 05/03/2012	NEG	NVD
0565	BAR 4/2012	CATTLE, serum, Collected 05/03/2012	NEG	O
0556	BAR 5/2012	CATTLE, epithelium, Collected 05/03/2012	POS	O
0560	BAR 6/2012	CATTLE, serum, Collected 05/03/2012	NEG	NVD
0559	BAR 7/2012	CATTLE, serum, Collected 05/03/2012	NEG	NVD
0557	BAR 8/2012	CATTLE, serum, Collected 05/03/2012	NEG	NVD
0552	BAR 9/2012	CATTLE, serum, Collected 06/03/2012	POS	NVD
0553	BAR 10/2012	CATTLE, serum, Collected 06/03/2012	POS	SAT 2

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)

A UKAS accredited testing laboratory No. 4025.

Your Reference	WRL Reference	Description of Sample	PCR Result	Serotyping Result by Cell Culture/ELISA
0551	BAR 11/2012	CATTLE, epithelium, Collected 13/03/2012	<b>POS</b>	NVD
0558	BAR 12/2012	CATTLE, serum, Collected 20/03/2012	<b>POS</b>	SAT 2
0566	BAR 13/2012	CATTLE, serum, Collected 21/03/2012	NEG	SAT 2
0567	BAR 14/2012	CATTLE, serum, Collected 21/03/2012	NEG	NVD
0569	BAR 15/2012	CATTLE, serum, Collected 21/03/2012	NEG	NVD
0555	BAR 16/2012	CATTLE, epithelium, Collected 26/03/2012	<b>POS</b>	SAT 2

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)

A UKAS accredited testing laboratory No. 4025.

**LAB DATA VALIDATION REPORT**

**LAB DATA AND TESTS FOR BATCH - WRLFMD/2012/00016**

**GENERAL LAB DATA**

WRL REF	DATE	WEIGHT	PH	STORED	DATE	RT-PCR	INTERIM	FINAL	DATE	VALIDATED	BY
NUMBER	RECEIVED IN GRAMS	AMOUNT STORED	RESULT	RESULT	DATE	DATE	DATE	DATE	DATE	DATE	DATE
BAR/2012/00001	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00002	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00003	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00004	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00005	30/03/2012	15.47	7.4	1	30/03/2012	POSITIVE	POSITIVE	O			
BAR/2012/00006	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00007	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00008	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00009	30/03/2012	0	0	1	30/03/2012	POSITIVE	POSITIVE	FMDV GD			
BAR/2012/00010	30/03/2012	0	0	1	30/03/2012	POSITIVE	POSITIVE	SAT 2			
BAR/2012/00011	30/03/2012	0.272	5	1	30/03/2012	POSITIVE	POSITIVE	FMDV GD			
BAR/2012/00012	30/03/2012	0	0	1	30/03/2012	POSITIVE	POSITIVE	SAT 2			
BAR/2012/00013	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	SAT 2			
BAR/2012/00014	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00015	30/03/2012	0	0	1	30/03/2012	NEGATIVE	NEGATIVE	NVD			
BAR/2012/00016	30/03/2012	0.895	7.4	1	30/03/2012	POSITIVE	POSITIVE	SAT 2			

**ELISA TEST DATA**

WRL REF	NO	TEST TYPE	ATTEMPT	HOUR	SEROTYPE	RESULTS	NEGATIVE	DATE	VALIDATED	BY
BAR/2012/00004	RS2	1	24	0	O	2.37	NO			
BAR/2012/00005	BTY1	1	24	0	O	1.77	NO			
BAR/2012/00007	RS1	1	72	0	NEG	-0.9	YES			
BAR/2012/00010	RS2	1	24	0	SAT 2	1.64	NO			
BAR/2012/00011	OS	1	0	0	NEG	-0.9	YES			
BAR/2012/00012	BTY1	1	24	0	SAT 2	1.02	NO			
BAR/2012/00013	RS1	1	48	0	SAT 2	0.941	NO			
BAR/2012/00016	OS	1	0	0	SAT 2	1.42	NO			

**TISSUE CULTURE TEST DATA**

WRL REF	NUMBER	TC TEST	ATTEMPT	HOUR	NUMBER	READING	DATE	DATE	VALIDATED	BY
NUMBER	TYPE	NUMBER	OF TUBES	READ	DATE	DATE	VALIDATED	DATE	DATE	DATE
BAR/2012/00001	BTY1	1	24	2	5	24	5			
BAR/2012/00001	BTY1	1	48	5	5	24	5			
BAR/2012/00001	BTY1	1	72	5	5	24	5			
BAR/2012/00001	BTY1	1	96	5	5	24	5			
BAR/2012/00001	RS1	1	24	5	5	24	5			
BAR/2012/00001	RS1	1	48	5	5	24	5			
BAR/2012/00001	RS1	1	72	5	5	24	5			
BAR/2012/00001	RS1	1	96	5	5	24	5			
BAR/2012/00002	BTY1	1	48	5	5	24	5			
BAR/2012/00002	BTY1	1	72	5	5	24	5			
BAR/2012/00002	BTY1	1	96	5	5	24	5			
BAR/2012/00002	RS1	1	24	5	5	24	5			
BAR/2012/00002	RS1	1	48	5	5	24	5			
BAR/2012/00002	RS1	1	72	5	5	24	5			
BAR/2012/00002	RS1	1	96	5	5	24	5			

	RS1	1	48	5	-		
	RS1	1	72	5	-		
	RS1	1	96	5	-		
BAR/2012/00003	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS1	1	72	1	?+		
	RS1	1	96	4	-		
	RS2	1	24	5	-		
	RS2	1	48	5	-		
BAR/2012/00004	BTY1	1	24	2	VE?		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	RS1	1	24	5	-		
	RS1	1	48	1	+		
	RS1	1	72	4	-		
	RS1	1	96	4	-		
	RS2	1	24	5	+		
BAR/2012/00005	BTY1	1	24	5	+		
	RS1	1	24	5	-		
	RS1	1	48	5	+		
BAR/2012/00006	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS1	1	72	5	-		
	RS1	1	96	5	-		
BAR/2012/00007	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS1	1	72	3	+		
	RS1	1	96	2	-		
	RS2	1	24	5	-		
	RS2	1	48	5	-		
BAR/2012/00008	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		
	BTY1	1	96	5	-		
	RS1	1	24	5	-		
	RS1	1	48	5	-		
	RS1	1	72	5	-		
	RS1	1	96	5	-		
BAR/2012/00009	BTY1	1	24	5	-		
	BTY1	1	48	5	-		
	BTY1	1	72	5	-		

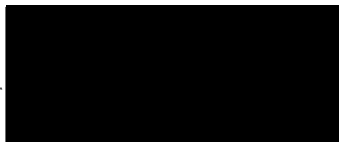


RS1	1	24	5	-		
RS1	1	48	5	-		
RS1	1	72	5	-		
RS1	1	96	5	-		

**CT VALUES**

WRL REF NUMBER	TEST NUMBER	WRL TEST REF	CT VALUE	CT MATERIAL	CT VIRUS	DATE VALIDATED	VALIDATED BY
BAR/2012/00001	1	WRL 0901	39.54	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00002	1	WRL 0901	50	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00003	1	WRL 0901	39.48	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00004	1	WRL 0901	50	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00005	1	WRL 0901	11.04	OS	FMD		
	2	WRL 0901	11.32	OS	FMD		
BAR/2012/00006	1	WRL 0901	50	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00007	1	WRL 0901	50	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00008	1	WRL 0901	50	SERUM	FMD		
	2	WRL 0901	50	SERUM	FMD		
BAR/2012/00009	1	WRL 0901	29.47	SERUM	FMD		
	2	WRL 0901	29.93	SERUM	FMD		
BAR/2012/00010	1	WRL 0901	30.1	SERUM	FMD		
	2	WRL 0901	29.58	SERUM	FMD		
BAR/2012/00011	1	WRL 0901	20.04	OS	FMD		
	2	WRL 0901	20.3	OS	FMD		
BAR/2012/00012	1	WRL 0901	24.3	SERUM	FMD		
	2	WRL 0901	23.75	SERUM	FMD		
BAR/2012/00013	1	WRL 0902	37.84	SERUM	FMD		
	2	WRL 0902	50	SERUM	FMD		
BAR/2012/00014	1	WRL 0902	50	SERUM	FMD		
	2	WRL 0902	50	SERUM	FMD		
BAR/2012/00015	1	WRL 0902	50	SERUM	FMD		
	2	WRL 0902	50	SERUM	FMD		
BAR/2012/00016	1	WRL 0902	17.04	OS	FMD		
	2	WRL 0902	16.66	OS	FMD		

Validated by .....



Date 20/04/2012 .....

## FMD DETECTION AND SEROTYPING FULL RESULTS

BATCH NUMBER - WRLFMD/2012/00016 DATE RECEIVED AT SITE - 30/03/2012 FROM BAHRAIN

SENDER DETAILS

Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA			PCR Result	Final Result
				BTY	RS	Other		
0561	BAR 1/2012	CATTLE, serum Collected 05/03/2012		-ve	-ve		39.54, 50	NVD
0562	BAR 2/2012	CATTLE, serum Collected 05/03/2012		-ve	-ve		50, 50	NVD
0564	BAR 3/2012	CATTLE, serum Collected 05/03/2012		-ve	-ve		39.48, 50	NVD
0565	BAR 4/2012	CATTLE, serum Collected 05/03/2012		-ve	O		50, 50	O
0556	BAR 5/2012	CATTLE, epithelium Collected 05/03/2012	O	O	O		11.04, 11.32	O
0560	BAR 6/2012	CATTLE, serum Collected 05/03/2012		-ve	-ve		50, 50	NVD

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

WRLFMD/2012/00016

IAHB/2012/00306

20 April 2012

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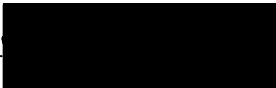
Created by IAH Informatics FMD serotyping Full Results Report



Your Reference	WRL Reference	Description of Sample	Direct Antigen ELISA	Cell Culture / ELISA BTY	RS	Other	PCR Result	Final Result
0559	BAR 7/2012	CATTLE, serum Collected 05/03/2012		-ve	NEG		50, 50	NVD
0557	BAR 8/2012	CATTLE, serum Collected 05/03/2012		-ve	-ve		50, 50	NVD
0552	BAR 9/2012	CATTLE, serum Collected 06/03/2012		-ve	-ve		29.47, 29.93	FMDV GD
0553	BAR 10/2012	CATTLE, serum Collected 06/03/2012		-ve	SAT 2		30.1, 29.58	SAT 2
0551	BAR 11/2012	CATTLE, epithelium Collected 13/03/2012	NEG	-ve	-ve		20.04, 20.3	FMDV GD
0558	BAR 12/2012	CATTLE, serum Collected 20/03/2012		SAT 2	SAT 2		24.3, 23.75	SAT 2
0566	BAR 13/2012	CATTLE, serum Collected 21/03/2012		-ve	SAT 2		37.84, 50	SAT 2
0567	BAR 14/2012	CATTLE, serum Collected 21/03/2012		-ve	-ve		50, 50	NVD
0569	BAR 15/2012	CATTLE, serum Collected 21/03/2012		-ve	-ve		50, 50	NVD

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
0555	BAR 16/2012	CATTLE, epithelium Collected 26/03/2012	SAT 2	-ve	-ve		17.04, 16.66	SAT 2

Validated by  .....

Date 20/04/2012 .....