

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Report Date for this Batch: 16 May 2013

FMDV type A

Country: Palestinian Autonomous Territories

Period: 2013

No. of samples: 3

BATCH: WRLFMD/2013/00009



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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: A	Report date: 16/05/2013
WRLFMD Ref No: PAT/10/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00009	Checked by: D.P. King
Sender Ref: 164294 Rafah	
Location: Rafah, Palestinian AT	Topotype: ASIA
Date collected: 02/04/2013	Genotype/strain: Iran-05 ^{BAR-08}
Date received by WRLFMD: 02/05/2013	Sequence filename: PAT13-10.SEQ
Date received for sequencing: 13/05/2013	Date sequence last updated: 16/05/2013
Species: Calves	No. of Nt determined: 639
Material used: BTy1 09/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1620
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 3 days
Comments:	

Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/PAT/11/2013	PAT13-11	639	639	0	100.00	0.00	ASIA	Iran-05 ^{BAR-08}
2	A/PAT/12/2013	PAT13-12	639	639	0	100.00	0.00	ASIA	Iran-05 ^{BAR-08}
3	A/PAT/6/2009	PAT09-06	639	615	0	96.24	3.76	ASIA	Iran-05 ^{BAR-08}
4	A/4257/IRQ/2009 (PIADC) (JN099701)	IRQ09-AN	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
5	A/IRN/11/2009	IRN09-11	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/12/2009	IRN09-12	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
7	A/ISR/1/2009	ISR09-01	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
8	A/KUW/5/2009	KUW09-05	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
9	A/LIB/1/2009	LIB09-01	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
10	A/LIB/10/2009	LIB09-10	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}

Most Closely Related Reference Viruses

(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)

Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/BAR/6/2008	BAR08-06	639	610	0	95.46	4.54	ASIA	Iran-05 ^{BAR-08}
2	A/AFG/6/2007	AFG07-06	639	603	0	94.37	5.63	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/1/2005 (EF208769)	IRN05-01	639	600	0	93.90	6.10	ASIA	Iran-05
4	A/IRN/78/2009	IRN09-78	639	597	0	93.43	6.57	ASIA	Iran-05 ^{FAR-09}
5	A/TUR/1/2008	TUR08-01	639	595	0	93.11	6.89	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/33/2008	TUR08-33	639	595	0	93.11	6.89	ASIA	Iran-05 ^{EZM-07}
7	A/AFG/10/2010	AFG10-10	639	594	0	92.96	7.04	ASIA	Iran-05 ^{HER-10}
8	A/IRN/15/2012	IRN12-15	639	592	0	92.64	7.36	ASIA	Iran-05 ^{SIS-12}
9	A/IRN/125/2010	IRN10125	639	590	0	92.33	7.67	ASIA	Iran-05 ^{SIS-10}
10	A/IRN/9/2011	IRN11-09	639	581	0	90.92	9.08	ASIA	Iran-05 ^{QAZ-11}

nt, nucleotides

*, not a WRLFMD reference number

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WRLFMD Ref No: PAT/11/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00009	Checked by: D.P. King
Sender Ref: 164294 Epithelium Pass-3	
Location: Rafah, Palestinian AT	Topotype: ASIA
Date collected: 02/04/2013	Genotype/strain: Iran-05 ^{BAR-08}
Date received by WRLFMD: 02/05/2013	Sequence filename: PAT13-11.SEQ
Date received for sequencing: 13/05/2013	Date sequence last updated: 16/05/2013
Species: Calves	No. of Nt determined: 639
Material used: BTy1 09/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1620
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
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2	A/PAT/12/2013	PAT13-12	639	639	0	100.00	0.00	ASIA	Iran-05 ^{BAR-08}
3	A/PAT/6/2009	PAT09-06	639	615	0	96.24	3.76	ASIA	Iran-05 ^{BAR-08}
4	A/4257/IRQ/2009 (PIADC) (JN099701)	IRQ09-AN	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
5	A/IRN/11/2009	IRN09-11	639	614	0	96.09	3.91	ASIA	Iran-05 ^{BAR-08}
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6	A/TUR/33/2008	TUR08-33	639	595	0	93.11	6.89	ASIA	Iran-05 ^{EZM-07}
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WRLFMD Ref No: PAT/12/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00009	Checked by: D.P. King
Sender Ref: 164294 B/mice	
Location: Rafah, Palestinian AT	Topotype: ASIA
Date collected: 02/04/2013	Genotype/strain: Iran-05 ^{BAR-08}
Date received by WRLFMD: 02/05/2013	Sequence filename: PAT13-12.SEQ
Date received for sequencing: 13/05/2013	Date sequence last updated: 16/05/2013
Species: Calves	No. of Nt determined: 639
Material used: BTy1 09/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
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Report on FMDV A in the Palestinian Autonomous Territories in 2013

Batch: WRLFMD/2013/00009

◆ indicates viruses in this batch

Software: MEGA 5.2

Analysis

Analysis ----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 639

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, K. Bachanek-Bankowska & J. Wadsworth,
16 May 2013

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