

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

Genotyping Report

Report Date for this Batch: 25 August 2016

FMDV type O

Country: Myanmar

Period: 2016

No. of sequences: 2 (VP1)

Originator: 



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FAO World Reference Laboratory for FMD Genotyping Report

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

Page 1 of 1

Serotype: O	Report date: 25/08/2016
WRLFMD Ref No: MYA12-2016	Reported by: N.J. Knowles
Batch No: WRLMEG/2016/00016	Checked by: D.P. King
Sender Ref: O-MYA12-2016_2	
Location: not known, Myanmar	Topotype: ME-SA
Date collected: 2016	Genotype/strain: Ind-2001d
Date received by WRLFMD: 24/08/2016	Sequence filename: MYA16-AA.SEQ
Date received for sequencing:	Date sequence last updated: 24/08/2016
Species:	No. of Nt determined: 639
Material used:	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers:	Total no. of comparisons: 4265
	Min. no. of nt for comparison: 600
	Total turn-around time: 1 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA13-2016* (TRRL)	MYA16-AB	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/NEP/17/2015	NEP15-17	639	634	0	99.22	0.78	ME-SA	Ind-2001d
3	O/NEP/19/2015	NEP15-19	639	634	0	99.22	0.78	ME-SA	Ind-2001d
4	O/NEP/28/2015	NEP15-28	639	634	0	99.22	0.78	ME-SA	Ind-2001d
5	O/NEP/6/2016	NEP16-06	639	634	0	99.22	0.78	ME-SA	Ind-2001d
6	O/NEP/5/2016	NEP16-05	639	633	0	99.06	0.94	ME-SA	Ind-2001d
7	O/NEP/7/2016	NEP16-07	639	633	0	99.06	0.94	ME-SA	Ind-2001d
8	O/2B/MAUR/2016* (ANSES)	MUR16-AB	639	632	0	98.90	1.10	ME-SA	Ind-2001d
9	O/3A/MAUR/2016* (ANSES)	MUR16-AD	639	632	0	98.90	1.10	ME-SA	Ind-2001d
10	O/3B/MAUR/2016* (ANSES)	MUR16-AE	639	632	0	98.90	1.10	ME-SA	Ind-2001d
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	O/BHU/3/2009 (KM921814)	BHU09-03	639	599	0	93.74	6.26	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	591	0	92.49	7.51	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	583	0	91.24	8.76	ME-SA	Ind-2001a
4	O/UAE/4/2008 (KM921876)	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
5	O/LAO/2/2006 (2003)(EU667451)	LAO06-02	639	569	0	89.05	10.95	ME-SA	PanAsia
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	568	0	88.89	11.11	ME-SA	PanAsia
7	O/IRN/31/2009	IRN09-31	639	566	0	88.58	11.42	ME-SA	PanAsia-2 ^{FAR-09}
8	O/IRN/18/2010	IRN10-18	639	563	0	88.11	11.89	ME-SA	PanAsia-2 ^{BAL-09}
9	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IRN/8/2005	IRN05-08	639	562	0	87.95	12.05	ME-SA	PanAsia-2

nt, nucleotides

*, not a WRLFMD reference number

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Page 1 of 1

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Date received for sequencing:	Date sequence last updated: 24/08/2016
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5	O/LAO/2/2006 (2003)(EU667451)	LAO06-02	639	568	0	88.89	11.11	ME-SA	PanAsia
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	567	0	88.73	11.27	ME-SA	PanAsia
7	O/IRN/31/2009	IRN09-31	639	565	0	88.42	11.58	ME-SA	PanAsia-2 ^{FAR-09}
8	O/IRN/18/2010	IRN10-18	639	562	0	87.95	12.05	ME-SA	PanAsia-2 ^{BAL-09}
9	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IRN/8/2005	IRN05-08	639	561	0	87.79	12.21	ME-SA	PanAsia-2

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Report on FMDV O in Myanmar in 2016

Batch: WRLMEG/2016/00015

◆ indicates viruses in this batch

Software: MEGA 6.06

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 : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
25 August 2016

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