

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

Genotyping Report

Report Date for this Batch: 3 March 2014

FMDV type O

Country: United Arab Emirates

Period: 2014

No. of samples: 2

BATCH: WRLFMD/2014/00007



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: UAE/1/2014 Batch No: WRLFMD/2014/00007 Sender Ref: D63/14 A Location: Al Warsan, Al Aiban, Abu Dhabi, United Arab Emirates Date collected: 08/01/2014 Date received by WRLFMD: 17/02/2014 Date received for sequencing: 27/02/2014 Species: Gazelle Material used: BTy1 25/02/2002 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 01/03/2014 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ME-SA Genotype/strain: Ind-2001d Sequence filename: UAE14-01.SEQ Date sequence last updated: 01/03/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3799 Min. no. of nt for comparison: 600 Total turn-around time: 12 days Sequencing time: 2 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/UAE/2/2014	UAE14-02	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/IND205/2013* (PD-FMD)	IND13-AF	639	637	0	99.69	0.31	ME-SA	Ind-2001d
3	O/IND189/2013* (PD-FMD)	IND13-AE	639	636	0	99.53	0.47	ME-SA	Ind-2001d
4	O/IND219/2013* (PD-FMD)	IND13-AG	639	636	0	99.53	0.47	ME-SA	Ind-2001d
5	O/NEP/18/2013	NEP13-18	639	636	0	99.53	0.47	ME-SA	Ind-2001d
6	O/NEP/3/2013	NEP13-03	639	636	0	99.53	0.47	ME-SA	Ind-2001d
7	O/IND222/2013* (PD-FMD)	IND13-AH	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/NEP/11/2013	NEP13-11	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/NEP/12/2013	NEP13-12	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/NEP/2/2014	NEP14-02	639	635	0	99.37	0.63	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	BHU09-03	639	614	0	96.09	3.91	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	590	0	92.33	7.67	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
5	O/UKG/35/2001 (AJ539141)	UKG01-35	639	576	0	90.14	9.86	ME-SA	PanAsia
6	O/IRN/31/2009	IRN09-31	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{FAR-09}
7	O/IRN/18/2010	IRN10-18	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	570	0	89.20	10.80	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV O in the United Arab Emirates in 2014

Batch: WRLFMD/2014/00007

◆ indicates viruses in this batch

Software: MEGA 6.06

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 : 642

No Of Bootstrap Reps = 1000

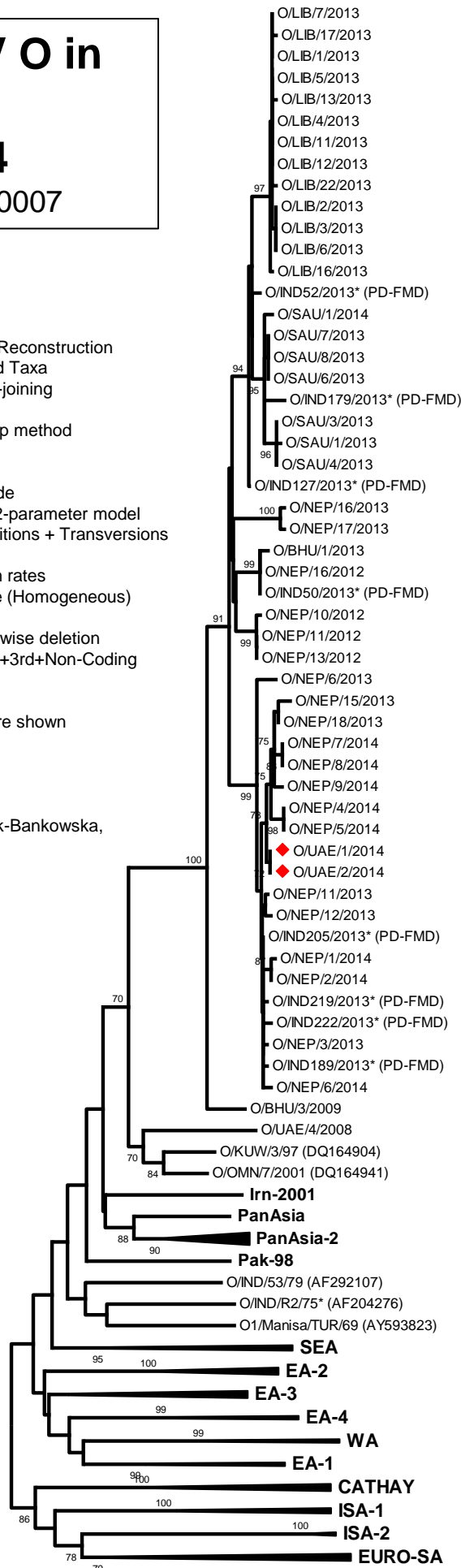
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
03 March 2014

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d
Ind-2001
ME-SA
c
a
b

0.02