

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

Genotyping Report

Report Date for this Batch: 10 September 2010

FMDV type O

Country: Russian Federation

Period: 2010

No. of isolates: 1 (VP1 sequence only)



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FAO World Reference Laboratory for FMD Genotyping Report

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

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Serotype: O	Report date: 10/09/2010
WRLFMD Ref No: none	Reported by: N.J. Knowles
Batch No: n/a	Checked by: D.P. King
Sender Ref: O/Russia/AUG2010	
Location: Zabaykalsky kray, Russia	Topotype: SEA
Date collected: August 2010	Genotype/strain: Mya-98
Date received by WRLFMD: 10/09/2010	Sequence filename: RUS10-AB.SEQ
Date received for sequencing: n/a	Date sequence last updated: 10/09/2010
Species: Not Known	No. of Nt determined: 639
Material used: Not known	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: Not known	Total no. of comparisons: 2262
	Min. no. of nt for comparison: 600
	Total turn-around time: 0 days
	Sequencing time: Not known 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/MOG/CO3/2010	MOG10-AA	639	637	0	99.69	0.31	SEA	Mya-98
2	O/TAI/13/2009	TAI09-13	639	635	0	99.37	0.63	SEA	Mya-98
3	O/TAI/15/2009	TAI09-15	639	635	0	99.37	0.63	SEA	Mya-98
4	O/TAI/16/2009	TAI09-16	639	635	0	99.37	0.63	SEA	Mya-98
5	O/TAI/17/2009	TAI09-17	639	635	0	99.37	0.63	SEA	Mya-98
6	O/MAY/20/2009	MAY09-20	639	633	0	99.06	0.94	SEA	Mya-98
7	O/MAY/21/2009	MAY09-21	639	633	0	99.06	0.94	SEA	Mya-98
8	O/TAI/12/2009	TAI09-12	639	633	0	99.06	0.94	SEA	Mya-98
9	O/TAI/19/2009	TAI09-19	639	632	0	98.90	1.10	SEA	Mya-98
10	O/TAI/23/2009	TAI09-23	639	631	0	98.75	1.25	SEA	Mya-98
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/MYA/7/98 (DQ164925)	MYA98-07	639	584	0	91.39	8.61	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	564	0	88.26	11.74	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
4	O/PAK/16/2003 (DQ165068)	PAK03-16	639	546	0	85.45	14.55	ME-SA	Pak-98
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	543	0	84.98	15.02	SEA	Cam-94
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	543	0	84.98	15.02	ME-SA	unnamed
7	O/KUW/3/97 (DQ164904)	KUW97-03	639	536	0	83.88	16.12	ME-SA	Ind-2001a
8	O/UAE/4/2008	UAE08-04	636	533	0	83.81	16.19	ME-SA	Ind-2001c
9	O/IND/53/79 (AF292107)	IND79A53	639	535	0	83.72	16.28	ME-SA	unnamed
10	O/IRN/8/2005	IRN05-08	639	535	0	83.72	16.28	ME-SA	PanAsia-2

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v3.11

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Report on FMDV O in Russia in 2010

VP1 sequence received from ARRIAH, Vladimir, Russian Federation, 10/09/2010.

Software: MEGA 4.0
 No. of Taxa : 245
 Data File : n:\evd\meg\db\fmdv\o\RUS2010b.meg
 Data Title : O Russia 2010
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)
 Include Sites : =====
 ->Gaps/Missing Data : Pairwise Deletion
 ->Codon Positions : 1st+2nd+3rd+Noncoding
 Substitution Model : =====
 ->Model : Nucleotide: Kimura 2-parameter
 ->Substitutions to Include : d: Transitions + Transversions
 ->Pattern among Lineages : Same (Homogeneous)
 ->Rates among sites : Uniform rates
 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 & J. Wadsworth, 10 September 2010

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