

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

Genotyping Report

Date: 3 March 2010

FMDV type A

Country: Laos

Period: 2008

No. of isolates: 1

BATCH: WRLFMD/2010/00005



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

Page 1 of 1

Serotype: A	Report date: 03/03/2010
WRLFMD Ref No: LAO/4/2008	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00005	Checked by: D.P. King
Sender Ref: LAO 19/08 B1	
Location: Pakson, Bolikhamxay, Laos	Topotype: ASIA
Date collected: 27/11/2008	Genotype/strain: Unnamed
Date received by WRLFMD: 05/02/2010	Sequence filename: LAO08-04.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 636
Material used: BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1254
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 26 days
	Sequencing time: 7 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/TAI/16/2008	TAI08-16	636	634	0	99.69	0.31	ASIA	unnamed
2	A/VIT/3/2008	VIT08-03	636	634	0	99.69	0.31	ASIA	unnamed
3	A/VIT/8/2008	VIT08-08	636	634	0	99.69	0.31	ASIA	unnamed
4	A/VN/02/2009* (GQ406248)	VIT09-AA	636	634	0	99.69	0.31	ASIA	unnamed
5	A/VN/03/2009* (GQ406249)	VIT09-AB	636	634	0	99.69	0.31	ASIA	unnamed
6	A/TAI/10/2008	TAI08-10	636	633	0	99.53	0.47	ASIA	unnamed
7	A/TAI/15/2008	TAI08-15	636	633	0	99.53	0.47	ASIA	unnamed
8	A/TAI/4/2008	TAI08-04	636	633	0	99.53	0.47	ASIA	unnamed
9	A/TAI/9/2008	TAI08-09	636	633	0	99.53	0.47	ASIA	unnamed
10	A/TAI 67/08* (TRRL)	TAI08-AG	636	633	0	99.53	0.47	ASIA	unnamed
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/TAI/118/87* (EF208777)	TAI87-AD	636	563	0	88.52	11.48	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	523	0	82.23	17.77	ASIA	A22
4	A/TUR/33/2008	TUR08-33	636	518	0	81.45	18.55	ASIA	Iran-05 ^{EZM-07}
5	A/GHA/16/73	GHA73-16	633	515	0	81.36	18.64	AFRICA (G-VI)	unnamed
6	A/IRN/1/96 (EF208771)	IRN96-01	635	516	1	81.26	18.74	ASIA	Iran-96
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	516	0	81.13	18.87	ASIA	Iran-05
8	A/SUD/3/77 (GU566064)	SUD77-03	636	516	0	81.13	18.87	AFRICA (G-IV)	unnamed
9	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	516	0	81.13	18.87	ASIA	A15
10	A/AFG/6/2007	AFG07-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{AFG-07}

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v3.0

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Report on FMDV A in Laos in 2008

Batch: WRLFMD/2010/00005

Software: MEGA 4.0
 No. of Taxa : 173
 Data File : n:\evd\meg\db\fmdv\la\SEA2010a.meg
 Data Title : Southeast Asia 2008-2009
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=24054)
 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 : 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 & F. Hamid, 03 March 2010

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