

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

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<p>Serotype: ASIA1 WRL Ref No: VIT/8/2006 Sender Ref: VIT 1/06 R1 B3 Date collected: 23/01/2006 Date received by WRLFMD: 23/07/2006 Date received for sequencing: 28/07/2006 Species: Cattle Material used: LK1 BHK3 BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R; As1-1C613F/EUR-2B52R No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633</p>	<p>Report date: 11/09/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: none defined Genotype/strain: none designated Sequence filename: VIT06-08.SEQ Date sequence last updated: 11/09/2006 Total no. of comparisons: 434 Min. no. of nt for comparison: 300 Total turn-around time: 50 days Sequencing time: 45 days</p>																																																																																								
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Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/VIT/16/2005	VIT05-16	633	633	0	100	0
2	As1/VIT/15/2005	VIT05-15	633	633	0	100	0
3	As1/VIT/2/06 [TRRL]	VIT06-AB	633	632	0	99.84	0.16
4	As1/VIT/1/06 [TRRL]	VIT06-AA	633	631	0	99.68	0.32
5	As1/VIT/8/2006	VIT06-08	633	631	0	99.68	0.32
6	As1/VIT/11/2006	VIT06-11	633	630	0	99.53	0.47
7	As1/VIT/10/2006	VIT06-10	633	630	0	99.53	0.47
8	As1/VIT/4/06R2B1 [TRRL]	VIT06-AD	633	629	0	99.37	0.63
9	As1/VIT/3/06R2B1 [TRRL]	VIT06-AC	633	628	0	99.21	0.79
10	As1/TAI/1/98 [DQ121129]	TAI98-01	632	597	1	94.46	5.54
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAI/85 vs	TAI85-AA	633	590	0	93.21	6.79
2	As1/CAM/9/80	CAM80-09	633	565	0	89.26	10.74
3	As1/IND/8/79	IND79-08	633	543	0	85.78	14.22
4	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	537	0	84.83	15.17
5	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	535	0	84.52	15.48
6	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	531	0	83.89	16.11
7	As1/Shamir/ISR/89	ISR89--A	633	528	0	83.41	16.59
8	As1/IND/63/72 [Y09949]	IND72B63	630	525	0	83.33	16.67
9	As1/PAK/1/54	PAK54-01	630	521	0	82.7	17.3
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Serotype: ASIA1 WRL Ref No: VIT/10/2006 Sender Ref: VIT 3/06R2 B4 Date collected: 06/03/2006 Date received by WRLFMD: 23/07/2006 Date received for sequencing: 28/07/2006 Species: Buffalo Material used: LK2 BHK4 BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R; As1-1C613F/EUR-2B52R No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633	Report date: 11/09/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: none defined Genotype/strain: none designated Sequence filename: VIT06-10.SEQ Date sequence last updated: 11/09/2006 Total no. of comparisons: 434 Min. no. of nt for comparison: 300 Total turn-around time: 50 days Sequencing time: 45 days
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Comments:

Ten Most Closely Related Viruses

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1	As1/VIT/11/2006	VIT06-11	633	633	0	100	0
2	As1/VIT/4/06R2B1 [TRRL]	VIT06-AD	633	632	0	99.84	0.16
3	As1/VIT/3/06R2B1 [TRRL]	VIT06-AC	633	631	0	99.68	0.32
4	As1/VIT/15/2005	VIT05-15	633	630	0	99.53	0.47
5	As1/VIT/9/2006	VIT06-09	633	630	0	99.53	0.47
6	As1/VIT/16/2005	VIT05-16	633	630	0	99.53	0.47
7	As1/VIT/2/06 [TRRL]	VIT06-AB	633	629	0	99.37	0.63
8	As1/VIT/1/06 [TRRL]	VIT06-AA	633	628	0	99.21	0.79
9	As1/VIT/8/2006	VIT06-08	633	628	0	99.21	0.79
10	As1/TAI/1/98 [DQ121129]	TAI98-01	632	598	1	94.62	5.38

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Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAI/85 vs	TAI85-AA	633	589	0	93.05	6.95
2	As1/CAM/9/80	CAM80-09	633	564	0	89.1	10.9
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5	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	534	0	84.36	15.64
6	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	531	0	83.89	16.11
7	As1/IND/63/72 [Y09949]	IND72B63	630	525	0	83.33	16.67
8	As1/Shamir/ISR/89	ISR89--A	633	527	0	83.25	16.75
9	As1/PAK/1/54	PAK54-01	630	523	0	83.02	16.98

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV Asia 1 in Myanmar (2005) and Vietnam (2006) (viruses received from TRRL)



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene (~633 nt). The tree was outgroup-rooted using PAK/1/54 & Bangkok/60.

* Not a WRLFMD reference number.