

Serotype: A	Report date: 13/06/2007						
WRL Ref No: CAM/1/2006							
Sender Ref: CAM 5/06							
Date collected: 13/07/2006	Topotype: ASIA						
Date received by WRLFMD: 27/05/2007	Genotype/strain: none designated						
Date received for sequencing: 04/06/2007	Sequence filename: CAM06-01.SEQ						
Species: Cattle	Date sequence last updated: 11/06/2007						
Material used: LK1 BHK1 BTy1	Total no. of comparisons: 868						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R	Total turn-around time: 17 days						
No. of Nt determined: 636	Sequencing time: 9 days						
No. of ambiguities: 0							
Gene length: 636							
Comments:							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/CAM/2/2006	CAM06-02	636	635	0	99.84	0.16
2	A/LAO/6/2006	LAO06-06	633	629	0	99.37	0.63
3	A/LAO/7/2006	LAO06-07	633	628	0	99.21	0.79
4	A/LAO/8/2006	LAO06-08	633	627	0	99.05	0.95
5	A/TAI/8/2003	TAI03-08	631	612	5	96.99	3.01
6	A/TAI/5/2003	TAI03-05	624	605	0	96.96	3.04
7	A/TAI/9/2003	TAI03-09	617	598	1	96.92	3.08
8	A/TAI/7/2003	TAI03-07	636	616	0	96.86	3.14
9	A/VIT/11/2004	VIT04-11	636	616	0	96.86	3.14
10	A/VIT/5/2004	VIT04-05	636	616	0	96.86	3.14
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/TAI/2/97 (EF208778)	TAI97-02	636	595	0	93.55	6.45
2	A/TAI/118/87* (EF208777)	TAI87-AD	636	575	0	90.41	9.59
3	A/IND/7/82 (1980)	IND82-07	636	545	0	85.69	14.31
4	A/SAU/41/91	SAU91-41	633	525	0	82.94	17.06
5	A/SAU/23/86	SAU86-23	636	527	0	82.86	17.14
6	A/IRN/87	IRN87--M	634	523	2	82.49	17.51
7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	524	0	82.39	17.61
8	A/IRN/22/99 (EF208772)	IRN99-22	633	518	0	81.83	18.17
9	A/IRN/1/96 (EF208771)	IRN96-01	635	518	1	81.57	18.43
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	510	0	80.19	19.81
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: A Report date: 13/06/2007  
WRL Ref No: CAM/2/2006  
Sender Ref: CAM 7/06  
Date collected: 13/07/2006  
Date received by WRLFMD: 27/05/2007 Topotype: ASIA  
Date received for sequencing: 04/06/2007 Genotype/strain: none designated  
Species: Cattle Sequence filename: CAM06-02.SEQ  
Material used: LK1 BHK1 BTy1 Date sequence last updated: 11/06/2007  
Region sequenced: VP1 Total no. of comparisons: 868  
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300  
A-1C612F/EUR-2B52R Total turn-around time: 17 days  
No. of Nt determined: 636 Sequencing time: 9 days  
No. of ambiguities: 0  
Gene length: 636

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/CAM/1/2006	CAM06-01	636	635	0	99.84	0.16
2	A/LAO/6/2006	LAO06-06	633	630	0	99.53	0.47
3	A/LAO/7/2006	LAO06-07	633	629	0	99.37	0.63
4	A/LAO/8/2006	LAO06-08	633	628	0	99.21	0.79
5	A/TAI/8/2003	TAI03-08	631	613	5	97.15	2.85
6	A/TAI/5/2003	TAI03-05	624	606	0	97.12	2.88
7	A/TAI/9/2003	TAI03-09	617	599	1	97.08	2.92
8	A/TAI/7/2003	TAI03-07	636	617	0	97.01	2.99
9	A/VIT/11/2004	VIT04-11	636	617	0	97.01	2.99
10	A/VIT/5/2004	VIT04-05	636	617	0	97.01	2.99

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/TAI/2/97 (EF208778)	TAI97-02	636	596	0	93.71	6.29
2	A/TAI/118/87* (EF208777)	TAI87-AD	636	576	0	90.57	9.43
3	A/IND/7/82 (1980)	IND82-07	636	546	0	85.85	14.15
4	A/SAU/41/91	SAU91-41	633	526	0	83.1	16.9
5	A/SAU/23/86	SAU86-23	636	528	0	83.02	16.98
6	A/IRN/87	IRN87--M	634	524	2	82.65	17.35
7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	525	0	82.55	17.45
8	A/IRN/22/99 (EF208772)	IRN99-22	633	519	0	81.99	18.01
9	A/IRN/1/96 (EF208771)	IRN96-01	635	519	1	81.73	18.27
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	510	0	80.19	19.81

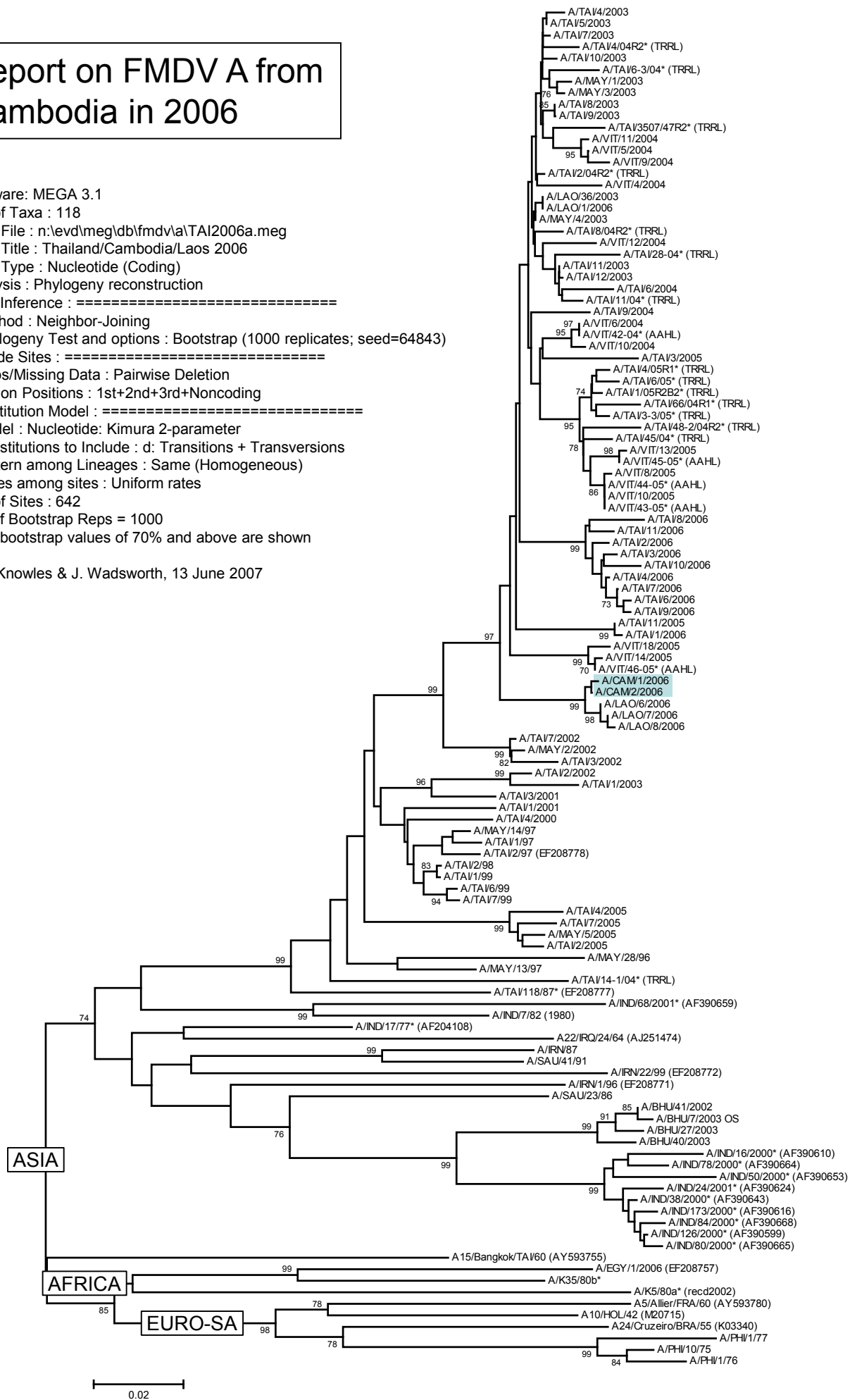
nt, nucleotides

\*, not a WRLFMD reference number

# Report on FMDV A from Cambodia in 2006

Software: MEGA 3.1  
 No. of Taxa : 118  
 Data File : n:\evd\meg\db\fmdv\A\TAI2006a.meg  
 Data Title : Thailand/Cambodia/Laos 2006  
 Data Type : Nucleotide (Coding)  
 Analysis : Phylogeny reconstruction  
 Tree Inference : =====  
 Method : Neighbor-Joining  
 Phylogeny Test and options : Bootstrap (1000 replicates; seed=64843)  
 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

N.J. Knowles & J. Wadsworth, 13 June 2007



0.02