

Serotype: A	Report date: 25/04/2005
WRL Ref No: TAI/6/2004	
Sender Ref: 23/04	
Date collected: not known	
Date received by WRLFMD: 21/03/2005	Topotype: Asia
Date received for sequencing: 30/03/2005	Genotype/strain: none designated
Species: Cattle	Sequence filename: TAI04-06.SEQ
Material used: LK2 BTy1	Date sequence last updated: 20/04/2005
Region sequenced: VP1	Total no. of comparisons: 790
RT-PCR primers: A-1C612F/NK61;A-1C562F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 636	Total turn-around time: 35 days
No. of ambiguities: 0	Sequencing time: 26 days
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/TAI/11/2003	TAI03-11	634	627	2	98.9	1.1
2	A/TAI/12/2003	TAI03-12	636	628	0	98.74	1.26
3	A/TAI/11/04* [TRRL]	TAI04-AD	636	626	0	98.43	1.57
4	A/MAY/4/2003	MAY03-04	636	625	0	98.27	1.73
5	A/TAI/5/2003	TAI03-05	624	613	0	98.24	1.76
6	A/LAO/36/2003	LAO03-36	636	624	0	98.11	1.89
7	A/TAI/2/04R2* [TRRL]	TAI04-AA	636	623	0	97.96	2.04
8	A/TAI/7/2003	TAI03-07	636	622	0	97.8	2.2
9	A/TAI/9/2003	TAI03-09	617	603	1	97.73	2.27
10	A/TAI/10/2003	TAI03-10	636	621	0	97.64	2.36

### 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	TAI97-02	636	586	0	92.14	7.86
2	A/TAI/118/87*	TAI87-AD	636	565	0	88.84	11.16
3	A/IND/7/82 (1980)	IND82-07	636	536	0	84.28	15.72
4	A/SAU/41/91	SAU91-41	633	519	0	81.99	18.01
5	A/IRN/87	IRN87--M	634	519	2	81.86	18.14
6	A/IRN/1/96	IRN96-01	635	518	1	81.57	18.43
7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	518	0	81.45	18.55
8	A/SAU/23/86	SAU86-23	636	518	0	81.45	18.55
9	A/IRN/22/99	IRN99-22	633	511	0	80.73	19.27
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	508	0	79.87	20.13

nt, nucleotides  
 \*, not a WRLFMD reference number

Serotype: A	Report date: 25/04/2005
WRL Ref No: TAI/9/2004	
Sender Ref: 46/04	
Date collected: not known	
Date received by WRLFMD: 21/03/2005	Topotype: Asia
Date received for sequencing: 30/03/2005	Genotype/strain: none designated
Species: Cattle	Sequence filename: TAI04-09.SEQ
Material used: LK2 BHK1 BTy1	Date sequence last updated: 20/04/2005
Region sequenced: VP1	Total no. of comparisons: 790
RT-PCR primers: A-1C612F/NK61;A-1C562F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 636	Total turn-around time: 35 days
No. of ambiguities: 0	Sequencing time: 26 days
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/MAY/4/2003	MAY03-04	636	627	0	98.58	1.42
2	A/LAO/36/2003	LAO03-36	636	626	0	98.43	1.57
3	A/TAI/2/04R2* [TRRL]	TAI04-AA	636	625	0	98.27	1.73
4	A/TAI/5/2003	TAI03-05	624	613	0	98.24	1.76
5	A/TAI/7/2003	TAI03-07	636	624	0	98.11	1.89
6	A/TAI/11/2003	TAI03-11	634	622	2	98.11	1.89
7	A/TAI/10/2003	TAI03-10	636	623	0	97.96	2.04
8	A/TAI/8/04R2* [TRRL]	TAI04-AC	636	623	0	97.96	2.04
9	A/TAI/12/2003	TAI03-12	636	623	0	97.96	2.04
10	A/TAI/8/2003	TAI03-08	631	618	5	97.94	2.06

#### 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	TAI97-02	636	590	0	92.77	7.23
2	A/TAI/118/87*	TAI87-AD	636	569	0	89.47	10.53
3	A/IND/7/82 (1980)	IND82-07	636	536	0	84.28	15.72
4	A/SAU/41/91	SAU91-41	633	519	0	81.99	18.01
5	A/SAU/23/86	SAU86-23	636	521	0	81.92	18.08
6	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
7	A/IRN/87	IRN87--M	634	517	2	81.55	18.45
8	A/IRN/1/96	IRN96-01	635	516	1	81.26	18.74
9	A/IRN/22/99	IRN99-22	633	513	0	81.04	18.96
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	506	0	79.56	20.44

nt, nucleotides

\*, not a WRLFMD reference number

# Report on FMDV A isolates and sequences received from the Thailand Regional Reference Laboratory in Mar-Apr 2005 (Thailand 2004)



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using the Euro-SA toptotype viruses.

\* Not a WRLFMD ref. no.  
TRRL, sequence from Thailand Regional Reference Laboratory