

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A		Report date: 23/02/2004					
Virus isolate: TAI/1/2003		Reported by N.J. Knowles:					
Material used: 10% epith susp		Validated by J.-F. Valarcher:					
Region sequenced: VP1		Topotype: Asia					
RT-PCR primers: A-1C612F/NK61		Genotype/strain:					
No. of nt determined: 617		Seq. filename: TAI03-01					
No. nt in gene: 636		Date sequence last updated: 13/02/2004					
No. of ambiguities: 1		Total no. of comparisons made: 659					
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/TAI/2/2002	TAI02-02	617	604	1	97.89	2.11
2	A/TAI/5/92	TAI92-05	111	106	4	95.50	4.50
3	A/TAI/5/92	TAI92-05	111	106	4	95.50	4.50
4	A/TAI/3/2001	TAI01-03	615	585	3	95.12	4.88
5	A/TAI/1/99	TAI99-01	616	582	2	94.48	5.52
6	A/MAY/15/97	MAY97-15	374	353	12	94.39	5.61
7	A/TAI/2/98	TAI98-02	616	581	2	94.32	5.68
8	A/TAI/7/99	TAI99-07	598	564	3	94.31	5.69
9	A/TAI/6/99	TAI99-06	617	580	1	94.00	6.00
10	A/TAI/2/99	TAI99-02	568	531	13	93.49	6.51
<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	TAI97-02	609	565	6	92.78	7.22
2	A/IND/7/82 (1980)	IND82-07	231	199	17	86.15	13.85
3	A/SAU/41/91	SAU91-41	114	97	4	85.09	14.91
4	A/IRN/87	IRN87--M	616	515	2	83.60	16.40
5	A/SAU/23/86	SAU86-23	282	235	13	83.33	16.67
6	A/IRN/1/96	IRN96-01	349	290	12	83.09	16.91
7	A22/IRQ/24/64	IRQ64-24	617	511	1	82.82	17.18
8	A/IRN/22/99	IRN99-22	594	477	21	80.30	19.70
9	A24/Cruzeiro/BRA/55	BRA55--C	617	485	1	78.61	21.39
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A	Report date: 23/02/2004						
Virus isolate: TAI/4/2003	Reported by N.J. Knowles:						
Material used: 10% epith susp	Validated by J.-F. Valarcher:						
Region sequenced: VP1	Topotype: Asia						
RT-PCR primers: A-1C562F/NK61 & A-1C612F/NK61	Genotype/strain:						
No. of nt determined: 635	Seq. filename: TAI03-04						
No. nt in gene: 636	Date sequence last updated: 13/02/2004						
No. of ambiguities: 1	Total no. of comparisons made: 659						
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/TAI/5/2003	TAI03-05	623	621	1	99.68	0.32
2	A/TAI/7/2003	TAI03-07	635	631	1	99.37	0.63
3	A/TAI/10/2003	TAI03-10	635	630	1	99.21	0.79
4	A/TAI/8/2003	TAI03-08	630	625	6	99.21	0.79
5	A/TAI/9/2003	TAI03-09	617	612	1	99.19	0.81
6	A/TAI/11/2003	TAI03-11	633	625	3	98.74	1.26
7	A/TAI/12/2003	TAI03-12	635	626	1	98.58	1.42
8	A/TAI/1/2002	TAI02-01	598	578	2	96.66	3.34
9	A/TAI/7/2002	TAI02-07	635	611	1	96.22	3.78
10	A/MAY/2/2002	MAY02-02	633	608	3	96.05	3.95
<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	TAI97-02	609	571	6	93.76	6.24
2	A/IND/7/82 (1980)	IND82-07	250	215	16	86.00	14.00
3	A/SAU/23/86	SAU86-23	300	249	13	83.00	17.00
4	A/IRN/87	IRN87--M	633	521	3	82.31	17.69
5	A22/IRQ/24/64	IRQ64-24	635	522	1	82.20	17.80
6	A/IRN/1/96	IRN96-01	353	290	11	82.15	17.85
7	A/SAU/41/91	SAU91-41	132	107	4	81.06	18.94
8	A/IRN/22/99	IRN99-22	607	489	21	80.56	19.44
9	A24/Cruzeiro/BRA/55	BRA55--C	635	507	1	79.84	20.16
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A		Report date: 23/02/2004					
Virus isolate: TAI/5/2003		Reported by N.J. Knowles:					
Material used: 10% epith susp		Validated by J.-F. Valarcher:					
Region sequenced: VP1		Topotype: Asia					
RT-PCR primers: A-1C562F/NK61		Genotype/strain:					
No. of nt determined: 624		Seq. filename: TAI03-05					
No. nt in gene: 636		Date sequence last updated: 13/02/2004					
No. of ambiguities: 0		Total no. of comparisons made: 659					
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/TAI/7/2003	TAI03-07	624	623	0	99.84	0.16
2	A/TAI/10/2003	TAI03-10	624	622	0	99.68	0.32
3	A/TAI/4/2003	TAI03-04	623	621	1	99.68	0.32
4	A/TAI/8/2003	TAI03-08	619	617	5	99.68	0.32
5	A/TAI/9/2003	TAI03-09	611	609	1	99.67	0.33
6	A/TAI/12/2003	TAI03-12	624	619	0	99.20	0.80
7	A/TAI/11/2003	TAI03-11	623	618	1	99.20	0.80
8	A/TAI/1/2002	TAI02-01	593	575	1	96.96	3.04
9	A/TAI/7/2002	TAI02-07	624	603	0	96.63	3.37
10	A/MAY/2/2002	MAY02-02	622	600	2	96.46	3.54
<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	TAI97-02	604	568	5	94.04	5.96
2	A/IND/7/82 (1980)	IND82-07	244	211	16	86.48	13.52
3	A/SAU/23/86	SAU86-23	295	246	12	83.39	16.61
4	A/IRN/87	IRN87--M	623	514	1	82.50	17.50
5	A/IRN/1/96	IRN96-01	353	291	11	82.44	17.56
6	A22/IRQ/24/64	IRQ64-24	624	514	0	82.37	17.63
7	A/SAU/41/91	SAU91-41	126	103	4	81.75	18.25
8	A/IRN/22/99	IRN99-22	601	485	20	80.70	19.30
9	A24/Cruzeiro/BRA/55	BRA55--C	624	499	0	79.97	20.03
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A	Report date: 23/02/2004
Virus isolate: TAI/7/2003	Reported by N.J. Knowles:
Material used: orig B3	Validated by J.-F. Valarcher:
Region sequenced: VP1	Topotype: Asia
RT-PCR primers: A-1C562F/NK61 & A-1C612F/NK61	Genotype/strain:
No. of nt determined: 636	Seq. filename: TAI03-07
No. nt in gene: 636	Date sequence last updated: 13/02/2004
No. of ambiguities: 0	Total no. of comparisons made: 659

Comments:

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/TAI/5/2003	TAI03-05	624	623	0	99.84	0.16
2	A/TAI/10/2003	TAI03-10	636	633	0	99.53	0.47
3	A/TAI/8/2003	TAI03-08	631	628	5	99.52	0.48
4	A/TAI/9/2003	TAI03-09	617	614	1	99.51	0.49
5	A/TAI/4/2003	TAI03-04	635	631	1	99.37	0.63
6	A/TAI/11/2003	TAI03-11	634	628	2	99.05	0.95
7	A/TAI/12/2003	TAI03-12	636	629	0	98.90	1.10
8	A/TAI/1/2002	TAI02-01	599	580	1	96.83	3.17
9	A/TAI/7/2002	TAI02-07	636	614	0	96.54	3.46
10	A/MAY/2/2002	MAY02-02	634	611	2	96.37	3.63

**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	610	573	5	93.93	6.07
2	A/IND/7/82 (1980)	IND82-07	250	216	16	86.40	13.60
3	A/SAU/23/86	SAU86-23	300	250	13	83.33	16.67
4	A/IRN/87	IRN87--M	634	524	2	82.65	17.35
5	A/IRN/1/96	IRN96-01	353	291	11	82.44	17.56
6	A22/IRQ/24/64	IRQ64-24	636	524	0	82.39	17.61
7	A/SAU/41/91	SAU91-41	132	108	4	81.82	18.18
8	A/IRN/22/99	IRN99-22	608	491	20	80.76	19.24
9	A24/Cruzeiro/BRA/55	BRA55--C	636	510	0	80.19	19.81

nt, nucleotides

\*, not a WRLFMD reference number

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A	Report date:	23/02/2004					
Virus isolate: TAI/8/2003	Reported by N.J. Knowles:						
Material used: BHK2 RS1	Validated by J.-F. Valarcher:						
Region sequenced: VP1	Topotype: Asia						
RT-PCR primers: A-1C562F/NK61	Genotype/strain:						
No. of nt determined: 631	Seq. filename: TAI03-08						
No. nt in gene: 636	Date sequence last updated: 23/02/2004						
No. of ambiguities: 5	Total no. of comparisons made: 659						
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/TAI/9/2003	TAI03-09	612	612	6	100.00	0.00
2	A/TAI/5/2003	TAI03-05	619	617	5	99.68	0.32
3	A/TAI/7/2003	TAI03-07	631	628	5	99.52	0.48
4	A/TAI/10/2003	TAI03-10	631	627	5	99.37	0.63
5	A/TAI/4/2003	TAI03-04	630	625	6	99.21	0.79
6	A/TAI/11/2003	TAI03-11	629	622	7	98.89	1.11
7	A/TAI/12/2003	TAI03-12	631	623	5	98.73	1.27
8	A/TAI/1/2002	TAI02-01	594	576	6	96.97	3.03
9	A/TAI/7/2002	TAI02-07	631	610	5	96.67	3.33
10	A/MAY/2/2002	MAY02-02	629	607	7	96.50	3.50
<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	TAI97-02	605	570	10	94.21	5.79
2	A/IND/7/82 (1980)	IND82-07	250	217	16	86.80	13.20
3	A/SAU/23/86	SAU86-23	300	250	13	83.33	16.67
4	A/IRN/87	IRN87--M	629	521	7	82.83	17.17
5	A/SAU/41/91	SAU91-41	132	109	4	82.58	17.42
6	A/IRN/1/96	IRN96-01	353	291	11	82.44	17.56
7	A22/IRQ/24/64	IRQ64-24	631	519	5	82.25	17.75
8	A/IRN/22/99	IRN99-22	603	486	25	80.60	19.40
9	A24/Cruzeiro/BRA/55	BRA55--C	631	507	5	80.35	19.65
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A		Report date: 23/02/2004					
Virus isolate: TAI/9/2003		Reported by N.J. Knowles:					
Material used: 10% epith susp		Validated by J.-F. Valarcher:					
Region sequenced: VP1		Topotype: Asia					
RT-PCR primers: A-1C562F/NK61 & A-1C612F/NK61		Genotype/strain:					
No. of nt determined: 617		Seq. filename: TAI03-09					
No. nt in gene: 636		Date sequence last updated: 13/02/2004					
No. of ambiguities: 1		Total no. of comparisons made: 659					
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/TAI/8/2003	TAI03-08	612	612	6	100.00	0.00
2	A/TAI/5/2003	TAI03-05	611	609	1	99.67	0.33
3	A/TAI/7/2003	TAI03-07	617	614	1	99.51	0.49
4	A/TAI/10/2003	TAI03-10	617	613	1	99.35	0.65
5	A/TAI/4/2003	TAI03-04	617	612	1	99.19	0.81
6	A/TAI/11/2003	TAI03-11	617	610	1	98.87	1.13
7	A/TAI/12/2003	TAI03-12	617	610	1	98.87	1.13
8	A/TAI/1/2002	TAI02-01	582	564	0	96.91	3.09
9	A/TAI/7/2002	TAI02-07	617	597	1	96.76	3.24
10	A/MAY/2/2002	MAY02-02	616	594	2	96.43	3.57
<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	TAI97-02	592	556	5	93.92	6.08
2	A/IND/7/82 (1980)	IND82-07	249	216	17	86.75	13.25
3	A/SAU/23/86	SAU86-23	299	249	14	83.28	16.72
4	A22/IRQ/24/64	IRQ64-24	617	510	1	82.66	17.34
5	A/IRN/87	IRN87--M	616	509	2	82.63	17.37
6	A/SAU/41/91	SAU91-41	131	108	5	82.44	17.56
7	A/IRN/1/96	IRN96-01	353	291	11	82.44	17.56
8	A/IRN/22/99	IRN99-22	589	475	21	80.65	19.35
9	A24/Cruzeiro/BRA/55	BRA55--C	617	494	1	80.06	19.94
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

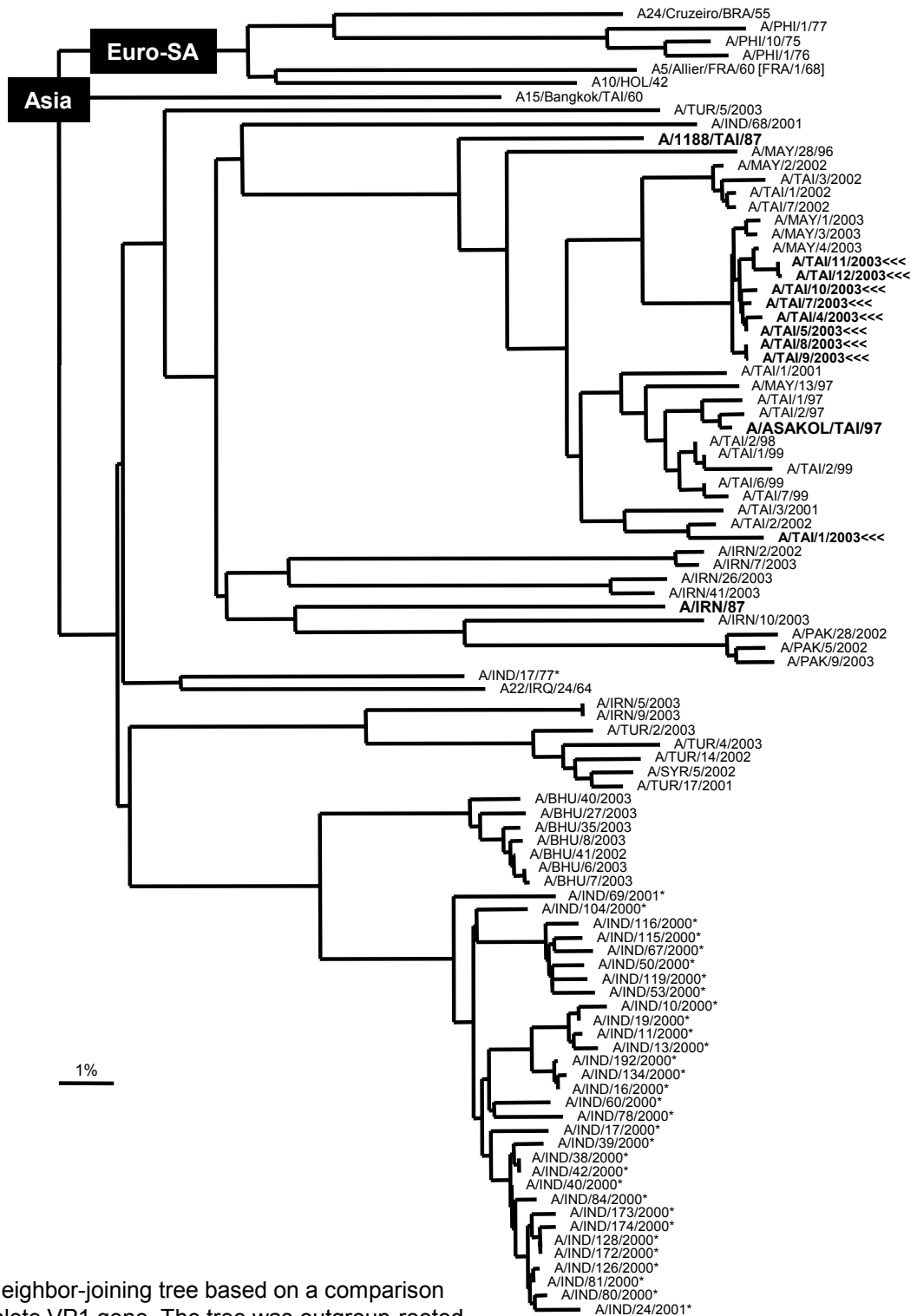
Serotype: A	Report date:	23/02/2004					
Virus isolate: TAI/11/2003	Reported by N.J. Knowles:						
Material used: LK1 BTy1	Validated by J.-F. Valarcher:						
Region sequenced: VP1	Topotype: Asia						
RT-PCR primers: A-1C562F/NK61	Genotype/strain:						
No. of nt determined: 634	Seq. filename: TAI03-11						
No. nt in gene: 636	Date sequence last updated: 23/02/2004						
No. of ambiguities: 2	Total no. of comparisons made: 659						
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/TAI/12/2003	TAI03-12	634	634	2	100.00	0.00
2	A/TAI/5/2003	TAI03-05	623	618	1	99.20	0.80
3	A/TAI/7/2003	TAI03-07	634	628	2	99.05	0.95
4	A/TAI/10/2003	TAI03-10	634	627	2	98.90	1.10
5	A/TAI/8/2003	TAI03-08	629	622	7	98.89	1.11
6	A/TAI/9/2003	TAI03-09	617	610	1	98.87	1.13
7	A/TAI/4/2003	TAI03-04	633	625	3	98.74	1.26
8	A/TAI/1/2002	TAI02-01	597	574	3	96.15	3.85
9	A/TAI/7/2002	TAI02-07	634	609	2	96.06	3.94
10	A/MAY/2/2002	MAY02-02	632	605	4	95.73	4.27
<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	TAI97-02	608	567	7	93.26	6.74
2	A/IND/7/82 (1980)	IND82-07	250	213	16	85.20	14.80
3	A/SAU/23/86	SAU86-23	300	247	13	82.33	17.67
4	A/IRN/87	IRN87--M	632	518	4	81.96	18.04
5	A22/IRQ/24/64	IRQ64-24	634	518	2	81.70	18.30
6	A/IRN/1/96	IRN96-01	353	288	11	81.59	18.41
7	A/SAU/41/91	SAU91-41	132	107	4	81.06	18.94
8	A/IRN/22/99	IRN99-22	606	487	22	80.36	19.64
9	A24/Cruzeiro/BRA/55	BRA55--C	634	508	2	80.13	19.87
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: <b>A</b>		Report date: <b>23/02/2004</b>					
Virus isolate: <b>TAI/12/2003</b>		Reported by <b>N.J. Knowles:</b>					
Material used: <b>10% epith susp</b>		Validated by <b>J.-F. Valarcher:</b>					
Region sequenced: <b>VP1</b>		Topotype: <b>Asia</b>					
RT-PCR primers: <b>A-1C562F/NK61 &amp; A-1C612F/NK61</b>		Genotype/strain:					
No. of nt determined: <b>636</b>		Seq. filename: <b>TAI03-12</b>					
No. nt in gene: <b>636</b>		Date sequence last updated: <b>13/02/2004</b>					
No. of ambiguities: <b>0</b>		Total no. of comparisons made: <b>659</b>					
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/TAI/11/2003	TAI03-11	634	634	2	100.00	0.00
2	A/TAI/5/2003	TAI03-05	624	619	0	99.20	0.80
3	A/TAI/7/2003	TAI03-07	636	629	0	98.90	1.10
4	A/TAI/9/2003	TAI03-09	617	610	1	98.87	1.13
5	A/TAI/10/2003	TAI03-10	636	628	0	98.74	1.26
6	A/TAI/8/2003	TAI03-08	631	623	5	98.73	1.27
7	A/TAI/4/2003	TAI03-04	635	626	1	98.58	1.42
8	A/TAI/1/2002	TAI02-01	599	575	1	95.99	4.01
9	A/TAI/7/2002	TAI02-07	636	609	0	95.75	4.25
10	A/MAY/2/2002	MAY02-02	634	606	2	95.58	4.42
<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	TAI97-02	610	568	5	93.11	6.89
2	A/IND/7/82 (1980)	IND82-07	250	213	16	85.20	14.80
3	A/SAU/23/86	SAU86-23	300	247	13	82.33	17.67
4	A/IRN/87	IRN87--M	634	519	2	81.86	18.14
5	A22/IRQ/24/64	IRQ64-24	636	519	0	81.60	18.40
6	A/IRN/1/96	IRN96-01	353	288	11	81.59	18.41
7	A/SAU/41/91	SAU91-41	132	107	4	81.06	18.94
8	A/IRN/22/99	IRN99-22	608	488	20	80.26	19.74
9	A24/Cruzeiro/BRA/55	BRA55--C	636	510	0	80.19	19.81
nt, nucleotides							
*, not a WRLFMD reference number							



# Report on: FMDV A Thailand 2003



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.