

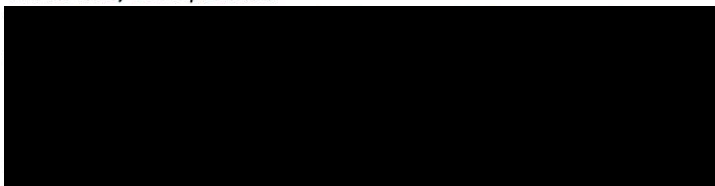


INSTITUTE FOR ANIMAL HEALTH
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath
PIRBRIGHT LABORATORY
Ash Road,
Pirbright,
Surrey,
GU24 0NF
Intn Tel: 00 44 1483 232441
Tel: 01483 232441 Fax: 01483 232621

FMD Genotyping Report

Lab Reference WRL Batch Number: WRLFMD/2011/00033

Sender Details:



Date Received: 28th July 2011

Country of Origin: Thailand

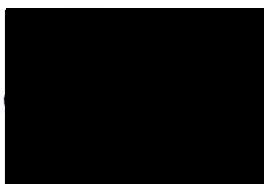
Date Reported: 30th August 2011

Dear Wilai Linchongsubongkoch,

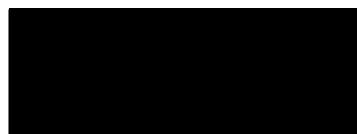
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

<http://www.wrlfmd.org/>

Results Approved By:

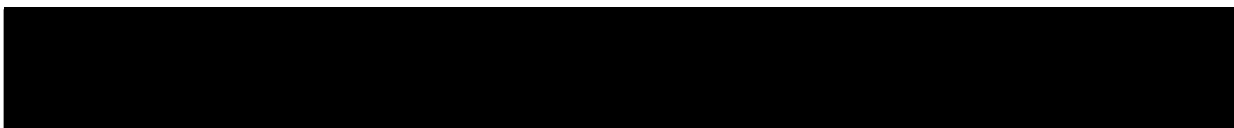


Official Stamp:



Date:

30/8/11



A UKAS accredited testing laboratory No. 4025.

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.wilson@bbsrc.ac.uk). IAH actively seeks and appreciates feedback, if you would like to offer feedback please complete the WRLFMD survey here: <http://www.surveymonkey.com/s/WRLFMD>

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

Genotyping Report

Report Date for this Batch: 26 August 2011

FMDV type A

Country: Thailand

Period: 2010-2011

No. of samples: 11

BATCH: WRLFMD/2011/00033



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/7/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 67-3/10 R2 B1	
Location: Bangmul Nak, Phichit, Thailand	Topotype: ASIA
Date collected: 03/12/2010	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI10-07.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 17/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/THA 67-3/10* (TRRL)	TAI10-AB	636	636	0	100.00	0.00	ASIA	Sea-97
2	A/THA 66-1/10* (TRRL)	TAI10-AA	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/TAI/8/2010	TAI10-08	636	633	0	99.53	0.47	ASIA	Sea-97
4	A/THA 69-6/10* (TRRL)	TAI10-AC	636	633	0	99.53	0.47	ASIA	Sea-97
5	A/TAI/1/2011	TAI11-01	636	632	0	99.37	0.63	ASIA	Sea-97
6	A/TAI/3/2011	TAI11-03	636	632	0	99.37	0.63	ASIA	Sea-97
7	A/TAI/12/2011	TAI11-12	636	630	0	99.06	0.94	ASIA	Sea-97
8	A/TAI/6/2011	TAI11-06	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/9/2011	TAI11-09	636	627	0	98.58	1.42	ASIA	Sea-97
10	A/TAI/10/2011	TAI11-10	636	626	0	98.43	1.57	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	603	0	94.81	5.19	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	582	0	91.51	8.49	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	526	0	82.70	17.30	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	523	0	82.23	17.77	ASIA	Iran-05 ^{FAR-09}
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	522	0	82.08	17.92	ASIA	A ₁₅
8	A/IRN/1/96 (EF208771)	IRN96-01	635	520	1	81.89	18.11	ASIA	Iran-96
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	520	0	81.76	18.24	ASIA	Iran-05
10	A/TUR/1/2008	TUR08-01	636	520	0	81.76	18.24	ASIA	Iran-05 ^{ARD-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TAI/8/2010 Batch No: WRLFMD/2011/00033 Sender Ref: 73/10 R3 B1 Location: Thongt Saenkhan, Uttaradit, Thailand Date collected: 15/12/2010 Date received by WRLFMD: 28/07/2011 Date received for sequencing: 05/08/2011 Species: Cattle Material used: LK3 BHK1 BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 26/08/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Sea-97 Sequence filename: TAI10-08.SEQ Date sequence last updated: 11/08/2011 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 1325 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 21 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/THA 66-1/10* (TRRL)	TAI10-AA	636	634	0	99.69	0.31	ASIA	Sea-97
2	A/THA 69-6/10* (TRRL)	TAI10-AC	636	634	0	99.69	0.31	ASIA	Sea-97
3	A/TAI/1/2011	TAI11-01	636	633	0	99.53	0.47	ASIA	Sea-97
4	A/TAI/3/2011	TAI11-03	636	633	0	99.53	0.47	ASIA	Sea-97
5	A/TAI/7/2010	TAI10-07	636	633	0	99.53	0.47	ASIA	Sea-97
6	A/THA 67-3/10* (TRRL)	TAI10-AB	636	633	0	99.53	0.47	ASIA	Sea-97
7	A/TAI/12/2011	TAI11-12	636	629	0	98.90	1.10	ASIA	Sea-97
8	A/TAI/9/2011	TAI11-09	636	628	0	98.74	1.26	ASIA	Sea-97
9	A/TAI/10/2011	TAI11-10	636	627	0	98.58	1.42	ASIA	Sea-97
10	A/TAI/11/2011	TAI11-11	636	627	0	98.58	1.42	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	604	0	94.97	5.03	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	583	0	91.67	8.33	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	557	0	87.58	12.42	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	527	0	82.86	17.14	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	520	0	81.76	18.24	ASIA	Iran-05 ^{FAR-09}
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	520	0	81.76	18.24	ASIA	A ₁₅
8	A/IRN/1/2005 (EF208769)	IRN05-01	636	519	0	81.60	18.40	ASIA	Iran-05
9	A/TUR/1/2008	TUR08-01	636	519	0	81.60	18.40	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/33/2008	TUR08-33	636	519	0	81.60	18.40	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/1/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 3-2/11 R2 B1	
Location: Lamphoon, Thailand	Topotype: ASIA
Date collected: 04/01/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-01.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/8/2010	TAI10-08	636	633	0	99.53	0.47	ASIA	Sea-97
2	A/THA 66-1/10* (TRRL)	TAI10-AA	636	633	0	99.53	0.47	ASIA	Sea-97
3	A/THA 69-6/10* (TRRL)	TAI10-AC	636	633	0	99.53	0.47	ASIA	Sea-97
4	A/TAI/3/2011	TAI11-03	636	632	0	99.37	0.63	ASIA	Sea-97
5	A/TAI/7/2010	TAI10-07	636	632	0	99.37	0.63	ASIA	Sea-97
6	A/THA 67-3/10* (TRRL)	TAI10-AB	636	632	0	99.37	0.63	ASIA	Sea-97
7	A/TAI/12/2011	TAI11-12	636	628	0	98.74	1.26	ASIA	Sea-97
8	A/TAI/9/2011	TAI11-09	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/10/2011	TAI11-10	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/11/2011	TAI11-11	636	626	0	98.43	1.57	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	603	0	94.81	5.19	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	582	0	91.51	8.49	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	527	0	82.86	17.14	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	519	0	81.99	18.01	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	520	0	81.76	18.24	ASIA	A ₁₅
7	A/IRN/78/2009	IRN09-78	636	519	0	81.60	18.40	ASIA	Iran-05 ^{FAR-09}
8	A/IRN/1/96 (EF208771)	IRN96-01	635	518	1	81.57	18.43	ASIA	Iran-96
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	518	0	81.45	18.55	ASIA	Iran-05
10	A/TUR/1/2008	TUR08-01	636	518	0	81.45	18.55	ASIA	Iran-05 ^{ARD-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/3/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 10-2/11	
Location: Muak Lek, Saraburi, Thailand	Topotype: ASIA
Date collected: 28/01/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-03.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/8/2010	TAI10-08	636	633	0	99.53	0.47	ASIA	Sea-97
2	A/THA 66-1/10* (TRRL)	TAI10-AA	636	633	0	99.53	0.47	ASIA	Sea-97
3	A/THA 69-6/10* (TRRL)	TAI10-AC	636	633	0	99.53	0.47	ASIA	Sea-97
4	A/TAI/1/2011	TAI11-01	636	632	0	99.37	0.63	ASIA	Sea-97
5	A/TAI/7/2010	TAI10-07	636	632	0	99.37	0.63	ASIA	Sea-97
6	A/THA 67-3/10* (TRRL)	TAI10-AB	636	632	0	99.37	0.63	ASIA	Sea-97
7	A/TAI/12/2011	TAI11-12	636	628	0	98.74	1.26	ASIA	Sea-97
8	A/TAI/9/2011	TAI11-09	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/10/2011	TAI11-10	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/11/2011	TAI11-11	636	626	0	98.43	1.57	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	603	0	94.81	5.19	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	584	0	91.82	8.18	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	560	0	88.05	11.95	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	527	0	82.86	17.14	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	521	0	81.92	18.08	ASIA	A ₁₅
7	A/IRN/78/2009	IRN09-78	636	520	0	81.76	18.24	ASIA	Iran-05 ^{FAR-09}
8	A/TUR/1/2008	TUR08-01	636	520	0	81.76	18.24	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	519	0	81.60	18.40	ASIA	Iran-05
10	A/TUR/33/2008	TUR08-33	636	519	0	81.60	18.40	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A WRLFMD Ref No: TAI/6/2011 Batch No: WRLFMD/2011/00033 Sender Ref: 53-1/11 R2 B2 Location: Kampangsan, Nakhonpathom, Thailand Date collected: 12/05/2011 Date received by WRLFMD: 28/07/2011 Date received for sequencing: 05/08/2011 Species: Cattle Material used: LK2 BHK2 BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 26/08/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Sea-97 Sequence filename: TAI11-06.SEQ Date sequence last updated: 17/08/2011 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 1325 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 21 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/9/2011	TAI11-09	636	631	0	99.21	0.79	ASIA	Sea-97
2	A/TAI/10/2011	TAI11-10	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/TAI/11/2011	TAI11-11	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/TAI/8/2011	TAI11-08	636	630	0	99.06	0.94	ASIA	Sea-97
5	A/THA 66-1/10* (TRRL)	TAI10-AA	636	628	0	98.74	1.26	ASIA	Sea-97
6	A/TAI/13/2011	TAI11-13	636	627	0	98.58	1.42	ASIA	Sea-97
7	A/TAI/7/2010	TAI10-07	636	627	0	98.58	1.42	ASIA	Sea-97
8	A/TAI/8/2010	TAI10-08	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/THA 67-3/10* (TRRL)	TAI10-AB	636	627	0	98.58	1.42	ASIA	Sea-97
10	A/THA 69-6/10* (TRRL)	TAI10-AC	636	627	0	98.58	1.42	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	597	0	93.87	6.13	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	581	0	91.35	8.65	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	526	0	82.70	17.30	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	521	0	81.92	18.08	ASIA	Iran-05 ^{FAR-09}
7	A/IRN/1/96 (EF208771)	IRN96-01	635	520	1	81.89	18.11	ASIA	Iran-96
8	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	520	0	81.76	18.24	ASIA	A ₁₅
9	A/BAR/6/2008	BAR08-06	636	519	0	81.60	18.40	ASIA	Iran-05 ^{BAR-08}
10	A/IRN/1/2005 (EF208769)	IRN05-01	636	519	0	81.60	18.40	ASIA	Iran-05

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/8/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 68-1/11	
Location: Cha-Um, Petchaburi, Thailand	Topotype: ASIA
Date collected: 02/06/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-08.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK1 BHK2 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/9/2011	TAI11-09	636	633	0	99.53	0.47	ASIA	Sea-97
2	A/TAI/10/2011	TAI11-10	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/TAI/11/2011	TAI11-11	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/TAI/6/2011	TAI11-06	636	630	0	99.06	0.94	ASIA	Sea-97
5	A/TAI/13/2011	TAI11-13	636	629	0	98.90	1.10	ASIA	Sea-97
6	A/TAI/8/2010	TAI10-08	636	627	0	98.58	1.42	ASIA	Sea-97
7	A/THA 66-1/10* (TRRL)	TAI10-AA	636	627	0	98.58	1.42	ASIA	Sea-97
8	A/THA 69-6/10* (TRRL)	TAI10-AC	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/1/2011	TAI11-01	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/3/2011	TAI11-03	636	626	0	98.43	1.57	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	597	0	93.87	6.13	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	583	0	91.67	8.33	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	526	0	82.70	17.30	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	523	0	82.62	17.38	ASIA	Iran-87
6	A/TUR/1/2008	TUR08-01	636	521	0	81.92	18.08	ASIA	Iran-05 ^{ARD-07}
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	521	0	81.92	18.08	ASIA	A ₁₅
8	A/IRN/1/96 (EF208771)	IRN96-01	635	520	1	81.89	18.11	ASIA	Iran-96
9	A/BAR/6/2008	BAR08-06	636	520	0	81.76	18.24	ASIA	Iran-05 ^{BAR-08}
10	A/IRN/78/2009	IRN09-78	636	520	0	81.76	18.24	ASIA	Iran-05 ^{FAR-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/9/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 70-2/11 R2 B1	
Location: Prachaupkirijhun, Thailand	Topotype: ASIA
Date collected: 02/06/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-09.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/8/2011	TAI11-08	636	633	0	99.53	0.47	ASIA	Sea-97
2	A/TAI/10/2011	TAI11-10	636	631	0	99.21	0.79	ASIA	Sea-97
3	A/TAI/11/2011	TAI11-11	636	631	0	99.21	0.79	ASIA	Sea-97
4	A/TAI/6/2011	TAI11-06	636	631	0	99.21	0.79	ASIA	Sea-97
5	A/TAI/13/2011	TAI11-13	636	628	0	98.74	1.26	ASIA	Sea-97
6	A/TAI/8/2010	TAI10-08	636	628	0	98.74	1.26	ASIA	Sea-97
7	A/THA 66-1/10* (TRRL)	TAI10-AA	636	628	0	98.74	1.26	ASIA	Sea-97
8	A/THA 69-6/10* (TRRL)	TAI10-AC	636	628	0	98.74	1.26	ASIA	Sea-97
9	A/TAI/1/2011	TAI11-01	636	627	0	98.58	1.42	ASIA	Sea-97
10	A/TAI/3/2011	TAI11-03	636	627	0	98.58	1.42	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	598	0	94.03	5.97	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	582	0	91.51	8.49	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	557	0	87.58	12.42	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	529	0	83.18	16.82	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	522	0	82.08	17.92	ASIA	Iran-05 ^{FAR-09}
7	A/IRN/1/96 (EF208771)	IRN96-01	635	521	1	82.05	17.95	ASIA	Iran-96
8	A/BAR/6/2008	BAR08-06	636	521	0	81.92	18.08	ASIA	Iran-05 ^{BAR-08}
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	520	0	81.76	18.24	ASIA	Iran-05
10	A/TUR/1/2008	TUR08-01	636	520	0	81.76	18.24	ASIA	Iran-05 ^{ARD-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/10/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 73-2/11 r2 B1	
Location: Pakpayoon, Pattalung, Thailand	Topotype: ASIA
Date collected: 02/06/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-10.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/9/2011	TAI11-09	636	631	0	99.21	0.79	ASIA	Sea-97
2	A/TAI/11/2011	TAI11-11	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/TAI/6/2011	TAI11-06	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/TAI/8/2011	TAI11-08	636	630	0	99.06	0.94	ASIA	Sea-97
5	A/TAI/13/2011	TAI11-13	636	627	0	98.58	1.42	ASIA	Sea-97
6	A/TAI/8/2010	TAI10-08	636	627	0	98.58	1.42	ASIA	Sea-97
7	A/THA 66-1/10* (TRRL)	TAI10-AA	636	627	0	98.58	1.42	ASIA	Sea-97
8	A/THA 69-6/10* (TRRL)	TAI10-AC	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/1/2011	TAI11-01	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/3/2011	TAI11-03	636	626	0	98.43	1.57	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	598	0	94.03	5.97	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	582	0	91.51	8.49	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	557	0	87.58	12.42	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	527	0	82.86	17.14	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	519	0	81.99	18.01	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	521	0	81.92	18.08	ASIA	Iran-05 ^{FAR-09}
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	520	0	81.76	18.24	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	636	520	0	81.76	18.24	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/1/96 (EF208771)	IRN96-01	635	519	1	81.73	18.27	ASIA	Iran-96
10	A/BAR/6/2008	BAR08-06	636	519	0	81.60	18.40	ASIA	Iran-05 ^{BAR-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/11/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 74/11 R2 B2	
Location: Bangpae, Ratchaburi, Thailand	Topotype: ASIA
Date collected: 06/06/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-11.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK1 BHK2 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/9/2011	TAI11-09	636	631	0	99.21	0.79	ASIA	Sea-97
2	A/TAI/10/2011	TAI11-10	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/TAI/6/2011	TAI11-06	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/TAI/8/2011	TAI11-08	636	630	0	99.06	0.94	ASIA	Sea-97
5	A/TAI/13/2011	TAI11-13	636	627	0	98.58	1.42	ASIA	Sea-97
6	A/TAI/8/2010	TAI10-08	636	627	0	98.58	1.42	ASIA	Sea-97
7	A/THA 66-1/10* (TRRL)	TAI10-AA	636	627	0	98.58	1.42	ASIA	Sea-97
8	A/THA 69-6/10* (TRRL)	TAI10-AC	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/1/2011	TAI11-01	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/3/2011	TAI11-03	636	626	0	98.43	1.57	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	597	0	93.87	6.13	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	581	0	91.35	8.65	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	526	0	82.70	17.30	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	519	0	81.99	18.01	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	520	0	81.76	18.24	ASIA	Iran-05 ^{FAR-09}
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	519	0	81.60	18.40	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	636	519	0	81.60	18.40	ASIA	Iran-05 ^{ARD-07}
9	A/BAR/6/2008	BAR08-06	636	518	0	81.45	18.55	ASIA	Iran-05 ^{BAR-08}
10	A/TUR/33/2008	TUR08-33	636	518	0	81.45	18.55	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/12/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 75/11 R2 B2	
Location: Muang, Nakhonpathom, Thailand	Topotype: ASIA
Date collected: 07/06/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-12.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK2 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/THA 66-1/10* (TRRL)	TAI10-AA	636	631	0	99.21	0.79	ASIA	Sea-97
2	A/TAI/7/2010	TAI10-07	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/THA 67-3/10* (TRRL)	TAI10-AB	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/TAI/8/2010	TAI10-08	636	629	0	98.90	1.10	ASIA	Sea-97
5	A/THA 69-6/10* (TRRL)	TAI10-AC	636	629	0	98.90	1.10	ASIA	Sea-97
6	A/TAI/1/2011	TAI11-01	636	628	0	98.74	1.26	ASIA	Sea-97
7	A/TAI/3/2011	TAI11-03	636	628	0	98.74	1.26	ASIA	Sea-97
8	A/TAI/6/2011	TAI11-06	636	626	0	98.43	1.57	ASIA	Sea-97
9	A/TAI/9/2011	TAI11-09	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/10/2011	TAI11-10	636	625	0	98.27	1.73	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	599	0	94.18	5.82	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	581	0	91.35	8.65	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	555	0	87.26	12.74	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	525	0	82.55	17.45	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	518	0	81.83	18.17	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	519	0	81.60	18.40	ASIA	Iran-05 ^{FAR-09}
7	A/BAR/6/2008	BAR08-06	636	517	0	81.29	18.71	ASIA	Iran-05 ^{BAR-08}
8	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A ₁₅
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	516	0	81.13	18.87	ASIA	Iran-05
10	A/TUR/1/2008	TUR08-01	636	516	0	81.13	18.87	ASIA	Iran-05 ^{ARD-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 26/08/2011
WRLFMD Ref No: TAI/13/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 76-1/11 R1 B4	
Location: Nadoung, Loiy, Thailand	Topotype: ASIA
Date collected: 14/06/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-13.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 18/08/2011
Species: Cattle	No. of Nt determined: 636
Material used: LK1 BHK4 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1325
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 21 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/8/2011	TAI11-08	636	629	0	98.90	1.10	ASIA	Sea-97
2	A/TAI/9/2011	TAI11-09	636	628	0	98.74	1.26	ASIA	Sea-97
3	A/TAI/10/2011	TAI11-10	636	627	0	98.58	1.42	ASIA	Sea-97
4	A/TAI/11/2011	TAI11-11	636	627	0	98.58	1.42	ASIA	Sea-97
5	A/TAI/6/2011	TAI11-06	636	627	0	98.58	1.42	ASIA	Sea-97
6	A/TAI/8/2010	TAI10-08	636	626	0	98.43	1.57	ASIA	Sea-97
7	A/THA 66-1/10* (TRRL)	TAI10-AA	636	626	0	98.43	1.57	ASIA	Sea-97
8	A/THA 69-6/10* (TRRL)	TAI10-AC	636	626	0	98.43	1.57	ASIA	Sea-97
9	A/TAI/1/2011	TAI11-01	636	625	0	98.27	1.73	ASIA	Sea-97
10	A/TAI/3/2011	TAI11-03	636	625	0	98.27	1.73	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	596	0	93.71	6.29	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	580	0	91.19	8.81	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	553	0	86.95	13.05	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	523	0	82.23	17.77	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	518	0	81.83	18.17	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	520	0	81.76	18.24	ASIA	A ₁₅
7	A/TUR/1/2008	TUR08-01	636	518	0	81.45	18.55	ASIA	Iran-05 ^{ARD-07}
8	A/IRN/78/2009	IRN09-78	636	517	0	81.29	18.71	ASIA	Iran-05 ^{FAR-09}
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	516	0	81.13	18.87	ASIA	Iran-05
10	A/TUR/33/2008	TUR08-33	636	516	0	81.13	18.87	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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