

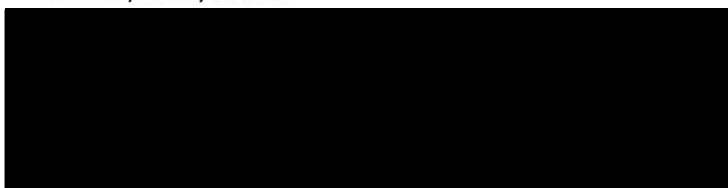


**INSTITUTE FOR ANIMAL HEALTH**  
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath  
PIRBRIGHT LABORATORY  
Ash Road,  
Pirbright,  
Surrey,  
GU24 0NF  
Intn Tel: 00 44 1483 232441  
Tel: 01483 232441 Fax: 01483 232621

## FMD Genotyping Report

Lab Reference WRL Batch Number: WRLFMD/2011/00033

Sender Details:

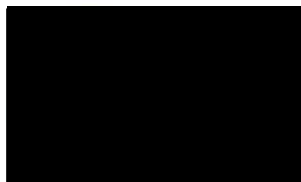


Date Received: 28<sup>th</sup> July 2011  
Country of Origin: Thailand  
Date Reported: 30<sup>th</sup> August 2011

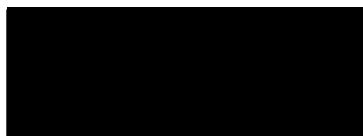
Dear Wilai Linchongsubongkoch,

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:

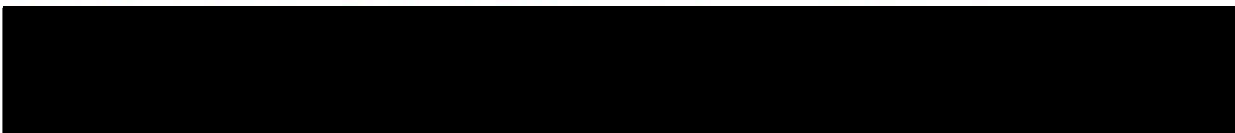


Official Stamp:



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](mailto: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 O

Country: Thailand

Period: 2010-2011

No. of samples: 6

BATCH: WRLFMD/2011/00033



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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: O WRLFMD Ref No: TAI/9/2010 Batch No: WRLFMD/2011/00033 Sender Ref: 72/10 R2 B1 Location: Pakthong Chai, Nakhon Ratchasima, Thailand Date collected: 20/12/2010 Date received by WRLFMD: 28/07/2011 Date received for sequencing: 05/08/2011 Species: Cattle Material used: LK2 BHK1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 25/08/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI10-09.SEQ Date sequence last updated: 11/08/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3088 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAI/3/2010	TAI10-03	639	638	0	99.84	0.16	SEA	Mya-98
2	O/TAI/2/2010	TAI10-02	639	637	0	99.69	0.31	SEA	Mya-98
3	O/TAI/27/2009	TAI09-27	639	637	0	99.69	0.31	SEA	Mya-98
4	O/TAI/5/2010	TAI10-05	639	637	0	99.69	0.31	SEA	Mya-98
5	O/VIT/5/2010	VIT10-05	639	636	0	99.53	0.47	SEA	Mya-98
6	O-GD/MAY/13/2010	MAY10-13	639	636	0	99.53	0.47	SEA	Mya-98
7	O/TAI/4/2010	TAI10-04	639	635	0	99.37	0.63	SEA	Mya-98
8	O/TAI/6/2010	TAI10-06	639	635	0	99.37	0.63	SEA	Mya-98
9	O/VIT/18/2010	VIT10-18	639	635	0	99.37	0.63	SEA	Mya-98
10	O-GD/MAY/12/2010	MAY10-12	639	635	0	99.37	0.63	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	591	0	92.49	7.51	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	567	0	88.73	11.27	SEA	unnamed
3	O/IRN/31/2009	IRN09-31	639	545	0	85.29	14.71	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/IND/R2/75* (AF204276)	IND75--A	639	544	0	85.13	14.87	ME-SA	unnamed
5	O/UKG/35/2001 (AJ539141)	UKG01-35	639	543	0	84.98	15.02	ME-SA	PanAsia
6	O/IND/53/79 (AF292107)	IND79A53	639	542	0	84.82	15.18	ME-SA	unnamed
7	O/PAK/16/2010	PAK10-16	639	541	0	84.66	15.34	ME-SA	PanAsia-2 <sup>PUN-10</sup>
8	O/CAM/3/98 (AJ294910)	CAM98-03	639	540	0	84.51	15.49	SEA	Cam-94
9	O/IRN/8/2005	IRN05-08	639	538	0	84.19	15.81	ME-SA	PanAsia-2
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	537	0	84.04	15.96	ME-SA	Pak-98

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: O	Report date: 25/08/2011
WRLFMD Ref No: TAI/10/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 1/11 R1	
Location: Muang, Songkhla, Thailand	Topotype: SEA
Date collected: 30/12/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI10-10.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 639
Material used: LK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3088
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 28 days
	Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/5/2010	VIT10-05	639	635	0	99.37	0.63	SEA	Mya-98
2	O/TAI/2/2010	TAI10-02	639	634	0	99.22	0.78	SEA	Mya-98
3	O/TAI/27/2009	TAI09-27	639	634	0	99.22	0.78	SEA	Mya-98
4	O/TAI/5/2010	TAI10-05	639	634	0	99.22	0.78	SEA	Mya-98
5	O/TAI/6/2010	TAI10-06	639	634	0	99.22	0.78	SEA	Mya-98
6	O/VIT/18/2010	VIT10-18	639	634	0	99.22	0.78	SEA	Mya-98
7	O-GD/MAY/12/2010	MAY10-12	639	634	0	99.22	0.78	SEA	Mya-98
8	O/TAI/3/2010	TAI10-03	639	633	0	99.06	0.94	SEA	Mya-98
9	O/TAI/4/2010	TAI10-04	639	632	0	98.90	1.10	SEA	Mya-98
10	O/TAI/9/2010	TAI10-09	639	632	0	98.90	1.10	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	590	0	92.33	7.67	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	568	0	88.89	11.11	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	547	0	85.60	14.40	ME-SA	unnamed
4	O/IRN/31/2009	IRN09-31	639	546	0	85.45	14.55	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/UKG/35/2001 (AJ539141)	UKG01-35	639	544	0	85.13	14.87	ME-SA	PanAsia
6	O/IND/53/79 (AF292107)	IND79A53	639	543	0	84.98	15.02	ME-SA	unnamed
7	O/PAK/16/2010	PAK10-16	639	542	0	84.82	15.18	ME-SA	PanAsia-2 <sup>PUN-10</sup>
8	O/IRN/8/2005	IRN05-08	639	541	0	84.66	15.34	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	540	0	84.51	15.49	ME-SA	Pak-98
10	O/CAM/3/98 (AJ294910)	CAM98-03	639	537	0	84.04	15.96	SEA	Cam-94

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: O	Report date: 25/08/2011
WRLFMD Ref No: TAI/2/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 7-1/11 R1 B2	
Location: Muang, Lamphoon, Thailand	Topotype: SEA
Date collected: 26/01/2011	Genotype/strain: Mya-98
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-02.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Pig	No. of Nt determined: 639
Material used: LK1 BHK2 RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3088
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 28 days
	Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAI/5/2011	TAI11-05	639	636	0	99.53	0.47	SEA	Mya-98
2	O/TAI/4/2011	TAI11-04	639	635	0	99.37	0.63	SEA	Mya-98
3	O/MYA/2/2008 (HQ116226)	MYA08-02	639	621	0	97.18	2.82	SEA	Mya-98
4	O/LAO/2/2008 (HQ116180)	LAO08-02	639	619	0	96.87	3.13	SEA	Mya-98
5	O/LAO/3/2008 (HQ116181)	LAO08-03	639	619	0	96.87	3.13	SEA	Mya-98
6	O/TAI/2/2008 (HQ116250)	TAI08-02	639	619	0	96.87	3.13	SEA	Mya-98
7	O/TAI/3/2008 (HQ116251)	TAI08-03	639	619	0	96.87	3.13	SEA	Mya-98
8	O/TAI/3/2009 (HQ116258)	TAI09-03	639	619	0	96.87	3.13	SEA	Mya-98
9	O/TAI/7/2008 (HQ116254)	TAI08-07	639	619	0	96.87	3.13	SEA	Mya-98
10	O/LAO/1/2007 (HQ116175)	LAO07-01	639	618	0	96.71	3.29	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	584	0	91.39	8.61	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	560	0	87.64	12.36	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	544	0	85.13	14.87	SEA	Cam-94
4	O/IND/R2/75* (AF204276)	IND75--A	639	541	0	84.66	15.34	ME-SA	unnamed
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	536	0	83.88	16.12	ME-SA	Pak-98
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	535	0	83.72	16.28	ME-SA	unnamed
7	O/IRN/31/2009	IRN09-31	639	533	0	83.41	16.59	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/IND/53/79 (AF292107)	IND79A53	639	532	0	83.26	16.74	ME-SA	unnamed
9	O/PAK/16/2010	PAK10-16	639	532	0	83.26	16.74	ME-SA	PanAsia-2 <sup>PUN-10</sup>
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	532	0	83.26	16.74	ME-SA	PanAsia-2 <sup>TER-08</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: O WRLFMD Ref No: TAI/4/2011 Batch No: WRLFMD/2011/00033 Sender Ref: 37-2/11 R1 B1 Location: Ban Hong, lumpoon, Thailand Date collected: 31/01/2011 Date received by WRLFMD: 28/07/2011 Date received for sequencing: 05/08/2011 Species: Pig Material used: LK1 BHK1 RS1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 25/08/2011 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI11-04.SEQ Date sequence last updated: 11/08/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3088 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAI/2/2011	TAI11-02	639	635	0	99.37	0.63	SEA	Mya-98
2	O/TAI/5/2011	TAI11-05	639	634	0	99.22	0.78	SEA	Mya-98
3	O/MYA/2/2008 (HQ116226)	MYA08-02	639	619	0	96.87	3.13	SEA	Mya-98
4	O/LAO/2/2008 (HQ116180)	LAO08-02	639	617	0	96.56	3.44	SEA	Mya-98
5	O/LAO/3/2008 (HQ116181)	LAO08-03	639	617	0	96.56	3.44	SEA	Mya-98
6	O/TAI/2/2008 (HQ116250)	TAI08-02	639	617	0	96.56	3.44	SEA	Mya-98
7	O/TAI/3/2008 (HQ116251)	TAI08-03	639	617	0	96.56	3.44	SEA	Mya-98
8	O/TAI/3/2009 (HQ116258)	TAI09-03	639	617	0	96.56	3.44	SEA	Mya-98
9	O/TAI/7/2008 (HQ116254)	TAI08-07	639	617	0	96.56	3.44	SEA	Mya-98
10	O/LAO/1/2007 (HQ116175)	LAO07-01	639	616	0	96.4	3.6	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	586	0	91.71	8.29	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	561	0	87.79	12.21	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	543	0	84.98	15.02	SEA	Cam-94
4	O/IND/R2/75* (AF204276)	IND75--A	639	540	0	84.51	15.49	ME-SA	unnamed
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	537	0	84.04	15.96	ME-SA	Pak-98
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	536	0	83.88	16.12	ME-SA	unnamed
7	O/IRN/31/2009	IRN09-31	639	534	0	83.57	16.43	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/PAK/16/2010	PAK10-16	639	533	0	83.41	16.59	ME-SA	PanAsia-2 <sup>PUN-10</sup>
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	533	0	83.41	16.59	ME-SA	PanAsia-2 <sup>TER-08</sup>
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	532	0	83.26	16.74	ME-SA	PanAsia-2 <sup>SAN-09</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: O	Report date: 25/08/2011
WRLFMD Ref No: TAI/5/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00033	Checked by: D.P. King
Sender Ref: 46/11 R1	
Location: Patew, Yasothan, Thailand	Topotype: SEA
Date collected: 10/03/2011	Genotype/strain: Mya-98
Date received by WRLFMD: 28/07/2011	Sequence filename: TAI11-05.SEQ
Date received for sequencing: 05/08/2011	Date sequence last updated: 11/08/2011
Species: Cattle	No. of Nt determined: 639
Material used: LK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3088
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 28 days
	Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAI/2/2011	TAI11-02	639	636	0	99.53	0.47	SEA	Mya-98
2	O/TAI/4/2011	TAI11-04	639	634	0	99.22	0.78	SEA	Mya-98
3	O/MYA/2/2008 (HQ116226)	MYA08-02	639	620	0	97.03	2.97	SEA	Mya-98
4	O/LAO/2/2008 (HQ116180)	LAO08-02	639	618	0	96.71	3.29	SEA	Mya-98
5	O/LAO/3/2008 (HQ116181)	LAO08-03	639	618	0	96.71	3.29	SEA	Mya-98
6	O/TAI/2/2008 (HQ116250)	TAI08-02	639	618	0	96.71	3.29	SEA	Mya-98
7	O/TAI/3/2008 (HQ116251)	TAI08-03	639	618	0	96.71	3.29	SEA	Mya-98
8	O/TAI/3/2009 (HQ116258)	TAI09-03	639	618	0	96.71	3.29	SEA	Mya-98
9	O/TAI/7/2008 (HQ116254)	TAI08-07	639	618	0	96.71	3.29	SEA	Mya-98
10	O/LAO/1/2007 (HQ116175)	LAO07-01	639	617	0	96.56	3.44	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	583	0	91.24	8.76	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	559	0	87.48	12.52	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	541	0	84.66	15.34	SEA	Cam-94
4	O/IND/R2/75* (AF204276)	IND75--A	639	538	0	84.19	15.81	ME-SA	unnamed
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	535	0	83.72	16.28	ME-SA	Pak-98
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	534	0	83.57	16.43	ME-SA	unnamed
7	O/IRN/31/2009	IRN09-31	639	532	0	83.26	16.74	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/OMN/7/2001 (DQ164941)	OMN01-07	639	532	0	83.26	16.74	ME-SA	Ind-2001b
9	O/IND/53/79 (AF292107)	IND79A53	639	531	0	83.10	16.90	ME-SA	unnamed
10	O/PAK/16/2010	PAK10-16	639	531	0	83.10	16.90	ME-SA	PanAsia-2 <sup>PUN-10</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: O WRLFMD Ref No: TAI/7/2011 Batch No: WRLFMD/2011/00033 Sender Ref: 66/11 R2 B2 Location: Komburi, Nakomratchasima, Thailand Date collected: 02/06/2011 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: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 25/08/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia Sequence filename: TAI11-07.SEQ Date sequence last updated: 11/08/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3088 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	634	0	99.22	0.78	ME-SA	PanAsia
2	O/VIT/5/2011	VIT11-05	639	634	0	99.22	0.78	ME-SA	PanAsia
3	O/VIT/6/2011	VIT11-06	639	634	0	99.22	0.78	ME-SA	PanAsia
4	O/VIT/7/2010	VIT10-07	639	634	0	99.22	0.78	ME-SA	PanAsia
5	O/VIT/8/2010	VIT10-08	639	634	0	99.22	0.78	ME-SA	PanAsia
6	O/CAM/2/2010	CAM10-02	639	633	0	99.06	0.94	ME-SA	PanAsia
7	O/CAM/4/2010	CAM10-04	639	633	0	99.06	0.94	ME-SA	PanAsia
8	O/CAM/5/2010	CAM10-05	639	633	0	99.06	0.94	ME-SA	PanAsia
9	O/CAM/8/2010	CAM10-08	639	633	0	99.06	0.94	ME-SA	PanAsia
10	O/VIT/10/2010	VIT10-10	639	633	0	99.06	0.94	ME-SA	PanAsia
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UKG/35/2001 (AJ539141)	UKG01-35	639	600	0	93.90	6.10	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	590	0	92.33	7.67	ME-SA	Ind-2001a
3	O/OMN/7/2001 (DQ164941)	OMN01-07	639	584	0	91.39	8.61	ME-SA	Ind-2001b
4	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
6	O/BHU/3/2009	BHU09-03	639	580	0	90.77	9.23	ME-SA	Ind-2001d
7	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 <sup>BAL-09</sup>
8	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
9	O/TUR/264/2009* (FMDI)	TUR09-AK	639	577	0	90.30	9.70	ME-SA	PanAsia-2 <sup>SAN-09</sup>
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 <sup>TER-08</sup>

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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# Report on FMDV O in Thailand in 2010-2011

Batch: WRLFMD/2011/00033

◆ indicates viruses in this batch

Software: MEGA 5.0

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth,  
26 August 2011

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