

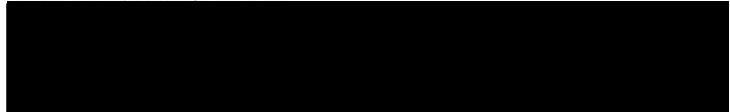


INSTITUTE FOR ANIMAL HEALTH
Director: Professor Martin W. Shirley, PhD
PIRBRIGHT LABORATORY
Ash Road,
Pirbright,
Surrey,
GU24 0NF
Intn Tel: 00 44 1483 232441
Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2009/00025

Sender Details:



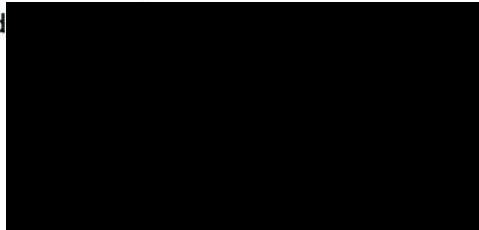
Date Received: 1st of May 2009
Country of Origin: Thailand
Date Reported: 14th of September 2009

Dear

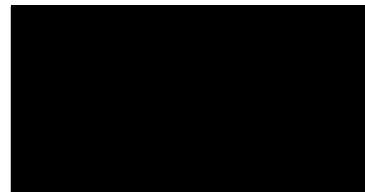
Re.: Serotype O results.

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/>

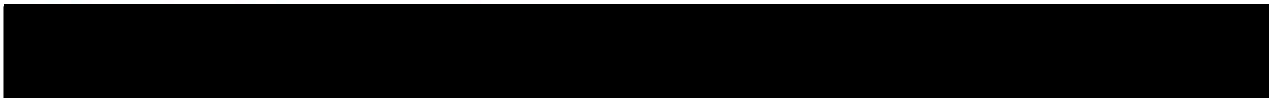
Results Approved



Official Stamp:



Date: 14/09/09



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.byrom@bbsrc.ac.uk)

Molecular Epidemiology Report Form

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Serotype: O WRL Ref No: TAI/2/2008 Sender Ref: 1 17/08 R1B1 Date collected: 27/04/2008 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: CATTLE Material used: LK1 BHK1 RS1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI08-02.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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Serotype: O WRL Ref No: TAI/5/2008 Sender Ref: 3 44/08 R1B1 Date collected: 11/08/2008 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: CATTLE Material used: R1B1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI08-05.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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Serotype: O WRL Ref No: TAI/7/2008 Sender Ref: 5 46/08 R1B1 Date collected: 01/08/2008 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: BUFFALO Material used: R1B1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI08-07.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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Serotype: O WRL Ref No: TAI/12/2008 Sender Ref: 11 60/08 R2B1 Date collected: 01/11/2008 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: CATTLE Material used: R2B1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI08-12.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days						
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAI 60/08* (TRRL)	TAI08-AH	639	636	0	99.53	0.47
2	O/TAI/2/2008	TAI08-02	639	635	0	99.37	0.63
3	O/TAI/2/2009	TAI09-02	639	635	0	99.37	0.63
4	O/TAI/3/2008	TAI08-03	639	635	0	99.37	0.63
5	O/TAI/7/2008	TAI08-07	639	635	0	99.37	0.63
6	O/TAI/6/2008	TAI08-06	639	634	0	99.22	0.78
7	O/TAI/5/2008	TAI08-05	639	632	0	98.9	1.1
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9	O/TAI 75/08* (TRRL)	TAI08-AI	639	632	0	98.9	1.1
10	O/MYA/2/2008	MYA08-02	639	631	0	98.75	1.25
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5	O/IND/53/79 [AF292107]	IND79A53	639	538	0	84.19	15.81
6	O/MOR/1/91	MOR91-01	639	532	0	83.26	16.74
7	O/ISR/2/88 (DQ164899)	ISR88-02	639	531	0	83.1	16.9
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	510	0	79.81	20.19
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	499	0	78.09	21.91
10	O/HKN/6/83 (AJ294919)	HKN83-06	637	495	2	77.71	22.29
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Serotype: O WRL Ref No: TAI/1/2009 Sender Ref: 25 3/09 R3B2 Date collected: 01/01/2009 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: CATTLE Material used: LK3 BHK2 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI09-01.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

Serotype: O WRL Ref No: TAI/2/2009 Sender Ref: 26 9-1/09 R2 Date collected: 06/01/2009 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: CATTLE Material used: R2 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI09-02.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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Serotype: O WRL Ref No: TAI/3/2009 Sender Ref: 27 11/09 R4B1 Date collected: 19/01/2009 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: CATTLE Material used: LK4 BHK1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI09-03.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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Serotype: O WRL Ref No: TAI/4/2009 Sender Ref: 28 14/09 R1B1 Date collected: 01/01/2009 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 01/06/2009 Species: PIG Material used: R1B1 RS1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI09-04.SEQ Date sequence last updated: 12/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 129 days Sequencing time: 98 days																																																																																								
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Pos.</th> <th style="width: 30%;">Virus name</th> <th style="width: 15%;">Filename</th> <th style="width: 10%;">No. nt compared</th> <th style="width: 10%;">No. nt matched</th> <th style="width: 10%;">No. of ambiguities</th> <th style="width: 10%;">% Identity</th> <th style="width: 10%;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>O/TAI/189/87* [TRRL]</td><td>TAI87-AC</td><td>639</td><td>566</td><td>0</td><td>88.58</td><td>11.42</td></tr> <tr><td>2</td><td>O/IND/R2/75* (AF204276)</td><td>IND75--A</td><td>639</td><td>545</td><td>0</td><td>85.29</td><td>14.71</td></tr> <tr><td>3</td><td>O1/Manisa/TUR/69 (AJ251477)</td><td>TUR69--E</td><td>639</td><td>539</td><td>0</td><td>84.35</td><td>15.65</td></tr> <tr><td>4</td><td>O/IND/53/79 [AF292107]</td><td>IND79A53</td><td>639</td><td>538</td><td>0</td><td>84.19</td><td>15.81</td></tr> <tr><td>5</td><td>O/TAW/2/99 (AJ294927)</td><td>TAW99-02</td><td>639</td><td>538</td><td>0</td><td>84.19</td><td>15.81</td></tr> <tr><td>6</td><td>O/MOR/1/91</td><td>MOR91-01</td><td>639</td><td>533</td><td>0</td><td>83.41</td><td>16.59</td></tr> <tr><td>7</td><td>O/ISR/2/88 (DQ164899)</td><td>ISR88-02</td><td>639</td><td>528</td><td>0</td><td>82.63</td><td>17.37</td></tr> <tr><td>8</td><td>O1/BFS 1860/UK/67 (J02185)</td><td>UKG67--A</td><td>639</td><td>509</td><td>0</td><td>79.66</td><td>20.34</td></tr> <tr><td>9</td><td>O/PHI/5/95 (DQ164946)</td><td>PHI95-05</td><td>639</td><td>497</td><td>0</td><td>77.78</td><td>22.22</td></tr> <tr><td>10</td><td>O/HKN/6/83 (AJ294919)</td><td>HKN83-06</td><td>637</td><td>493</td><td>2</td><td>77.39</td><td>22.61</td></tr> </tbody> </table>		Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference	1	O/TAI/189/87* [TRRL]	TAI87-AC	639	566	0	88.58	11.42	2	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	3	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	539	0	84.35	15.65	4	O/IND/53/79 [AF292107]	IND79A53	639	538	0	84.19	15.81	5	O/TAW/2/99 (AJ294927)	TAW99-02	639	538	0	84.19	15.81	6	O/MOR/1/91	MOR91-01	639	533	0	83.41	16.59	7	O/ISR/2/88 (DQ164899)	ISR88-02	639	528	0	82.63	17.37	8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	509	0	79.66	20.34	9	O/PHI/5/95 (DQ164946)	PHI95-05	639	497	0	77.78	22.22	10	O/HKN/6/83 (AJ294919)	HKN83-06	637	493	2	77.39	22.61
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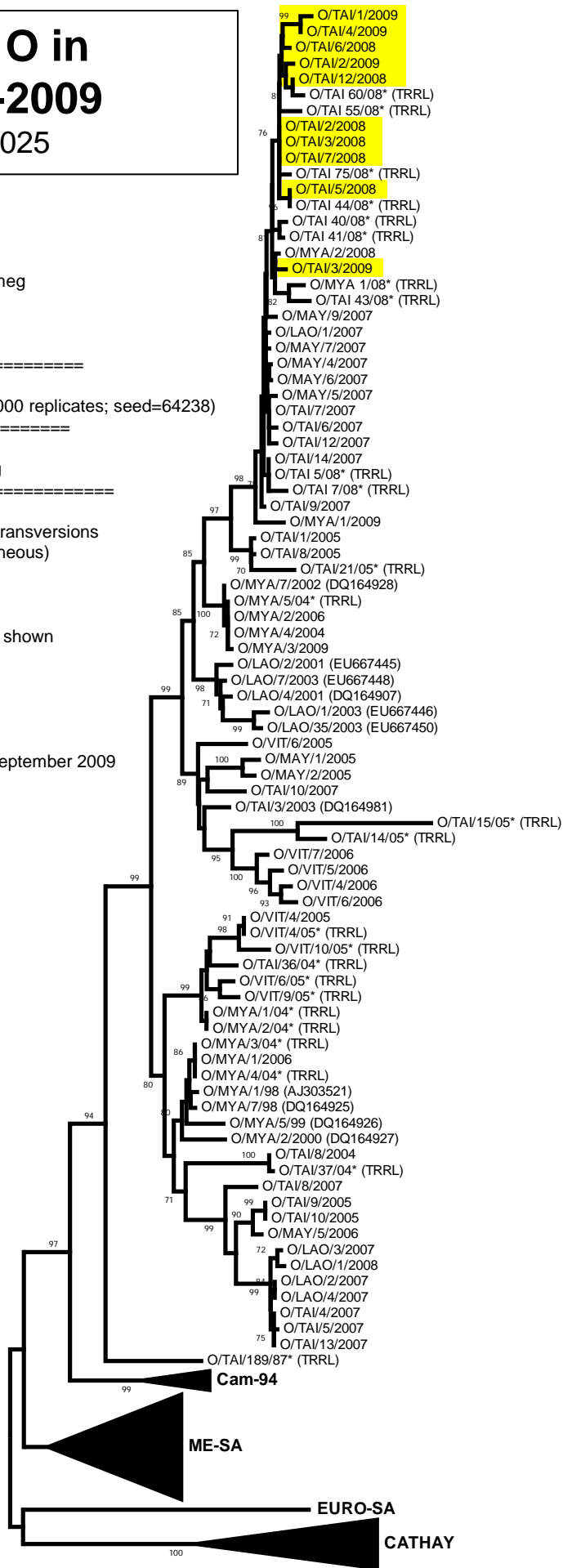
Report on FMDV O in Thailand in 2008-2009

Batch: WRLFMD/2009/00025

Software: MEGA 4.0
 No. of Taxa : 172
 Data File : n:\evd\meg\db\fmdv\o\TAI2009a.meg
 Data Title : Thailand 2008-2009
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)
 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 : 639
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

* , not a WRLFMD Ref. No.

F. Hamid, N.J. Knowles & J. Wadsworth, 7 September 2009



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