

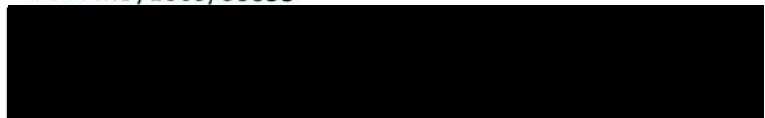


INSTITUTE FOR ANIMAL HEALTH  
Director: Professor Martin W. Shirley, PhD  
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## FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2009/00033

Sender Details:



Date Received: 15<sup>th</sup> June 2009

Country of Origin: Nepal

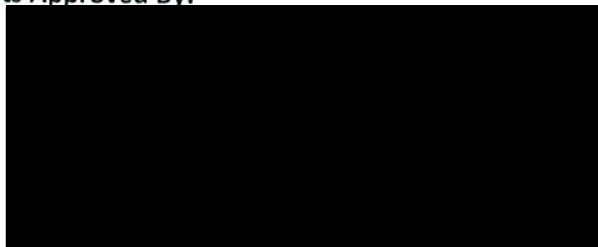
Date Reported: 26<sup>th</sup> August 2009

Dear

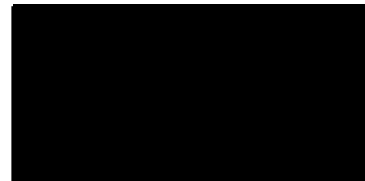


Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at: <http://www.wrlfmd.org/>

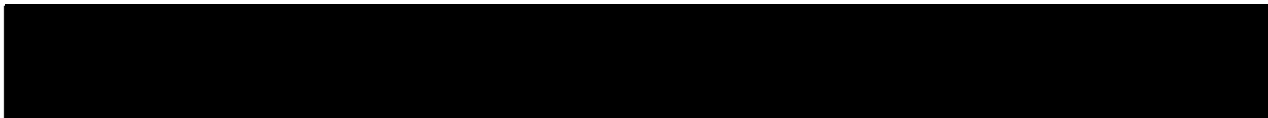
Results Approved By:



Official Stamp:



Date: 27/08/09



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](mailto:elizabeth.byrom@bbsrc.ac.uk))

# Molecular Epidemiology Report Form

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

Page 1 of 1

<p>Serotype: O  WRL Ref No: NEP/2/2007  Sender Ref: 4 LAB CODE 90  Date collected: 22/04/2007  Date received by WRLFMD: 22/06/2009  Date received for sequencing: 25/06/2009  Species: CATTLE  Material used: 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</p>	<p>Report date: 25/08/2009  Reported by: N.J. Knowles  Checked by: D.P. King    Topotype: ME-SA  Genotype/strain: PanAsia-2  Sequence filename: NEP07-02.SEQ  Date sequence last updated: 10/08/2009  Total no. of comparisons: 2096  Min. no. of nt for comparison: 300  Total turn-around time: 64 days  Sequencing time: 61 days</p>																																																																																								
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# Molecular Epidemiology Report Form

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

Page 1 of 1

Serotype: O WRL Ref No: NEP/4/2008 Sender Ref: 10 LAB CODE 36 Date collected: 21/04/2008 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: NEP08-04.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/5/2008 Sender Ref: 12 LAB CODE 7 Date collected: 17/07/2008 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: Ind2001 Sequence filename: NEP08-05.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/7/2008 Sender Ref: 14 LAB CODE 31 Date collected: 09/12/2008 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: Ind2001 Sequence filename: NEP08-07.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/2/2009 Sender Ref: 16 LAB CODE 38 Date collected: 05/01/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: Ind2001 Sequence filename: NEP09-02.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 days																																																																																								
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10	O/HKN/6/83 (AJ294919)	HKN83-06	637	509	2	79.91	20.09																																																																																		
nt, nucleotides *, not a WRLFMD reference number																																																																																									

# Molecular Epidemiology Report Form

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

Page 1 of 1

Serotype: O WRL Ref No: NEP/3/2009 Sender Ref: 17 LAB CODE 39 Date collected: 05/01/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: Ind2001 Sequence filename: NEP09-03.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 days																																																																																								
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# Molecular Epidemiology Report Form

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Page 1 of 1

Serotype: O WRL Ref No: NEP/6/2009 Sender Ref: 19 LAB CODE 45 Date collected: 11/02/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: none designated Sequence filename: NEP09-06.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/10/2009 Sender Ref: 22 LAB CODE 55 Date collected: 28/02/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: none designated Sequence filename: NEP09-10.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/11/2009 Sender Ref: 23 LAB CODE 59 Date collected: 03/03/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: none designated Sequence filename: NEP09-11.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/13/2009 Sender Ref: 25 LAB CODE 63 Date collected: 14/03/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: BUFFALO Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: none designated Sequence filename: NEP09-13.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/14/2009 Sender Ref: 26 LAB CODE 65 Date collected: 14/03/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: BUFFALO Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: none designated Sequence filename: NEP09-14.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 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: NEP/15/2009 Sender Ref: 27 lab code 69 Date collected: 14/03/2009 Date received by WRLFMD: 22/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE Material used: 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: 25/08/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: ME-SA Genotype/strain: none designated Sequence filename: NEP09-15.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 64 days Sequencing time: 61 days																																																																																								
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# Report on FMDV O in Nepal in 2007-2009

Batch: WRLFMD/2009/00033

Software: MEGA 4.0

No. of Taxa : 155

Data File : n:\evd\meg\db\fmdv\o\NEP2009a.meg

Data Title : O Nepal 2007-2009

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference : =====

->Method : Neighbor-Joining

->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64843)

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 : 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, 25 August 2009

