

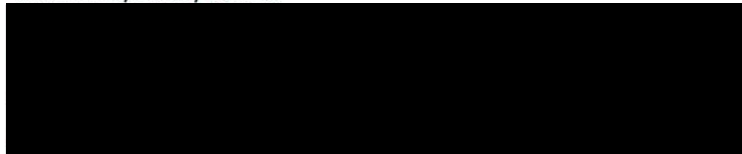


INSTITUTE FOR ANIMAL HEALTH
Director: Professor Martin W. Shirley, PhD
PIRBRIGHT LABORATORY
Ash Road,
Pirbright,
Surrey,
GU24 0NF
Intn Tel: 00 44 1483 232441
Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2009/00053

Sender Details:



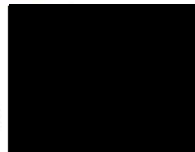
Date Received: 27th November 2009
Country of Origin: Bangladesh
Date Reported: 4th January 2010

Dear Dr. Md. Habibur Rahman,

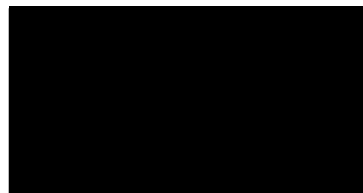
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

Results Approved By:



Official Stamp:



Date:

4th Jan. 2010

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)

Molecular Epidemiology Report Form

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

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Serotype: O WRL Ref No: BAN/1/2009 Sender Ref: 118 Date collected: 07/09/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-01.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/2/2009 Sender Ref: 119 Date collected: 07/09/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-02.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/3/2009 Sender Ref: 120 Date collected: 07/09/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: none designated Sequence filename: BAN09-03.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/4/2009 Sender Ref: 121 Date collected: 07/09/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: none designated Sequence filename: BAN09-04.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 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: BAN/5/2009 Sender Ref: 122 Date collected: 07/09/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: none designated Sequence filename: BAN09-05.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/9/2009 Sender Ref: 139 Date collected: 16/09/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-09.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/24/2009 Sender Ref: 211 (A) Date collected: 22/10/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: none designated Sequence filename: BAN09-24.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/25/2009 Sender Ref: 211 (B) Date collected: 22/10/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-25.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Molecular Epidemiology Report Form

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Serotype: O WRL Ref No: BAN/27/2009 Sender Ref: 211 (D) Date collected: 22/10/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-27.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Serotype: O WRL Ref No: BAN/29/2009 Sender Ref: 211 (F) Date collected: 22/10/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-29.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 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: BAN/31/2009 Sender Ref: 211 (H) Date collected: 22/10/2009 Date received by WRLFMD: 27/11/2009 Date received for sequencing: 14/12/2009 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: 21/12/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: Ind-2001 Sequence filename: BAN09-31.SEQ Date sequence last updated: 18/12/2009 Total no. of comparisons: 2156 Min. no. of nt for comparison: 300 Total turn-around time: 24 days Sequencing time: 7 days																																																																																								
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Report on FMDV O in Bangladesh in 2009

Batch: WRLFMD/2009/00053

Software: MEGA 4.0

No. of Taxa : 156

Data File : n:\evd\meg\db\fmv\o\BAN2009a.meg

Data Title : O Bangladesh 2009

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference : =====

->Method : Neighbor-Joining

->Phylogeny Test and options : Bootstrap (1000 replicates; seed=43139)

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.

N.J. Knowles & J. Wadsworth, 21 December 2009

