

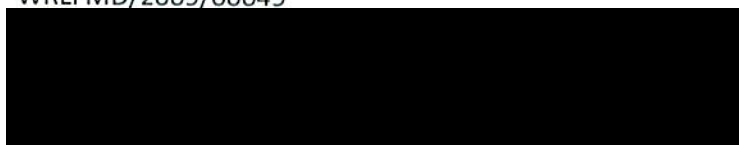


INSTITUTE FOR ANIMAL HEALTH  
Director: Professor Martin W. Shirley, PhD  
PIRBRIGHT LABORATORY  
Ash Road,  
Pirbright,  
Surrey,  
GU24 0NF  
Intn Tel: 00 44 1483 232441  
Tel: 01483 232441 Fax: 01483 232621

## FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2009/00049

Sender Details:



Date Received: 28<sup>th</sup> September 2009

Country of Origin: Pakistan

Date Reported: 15<sup>th</sup> October 2009

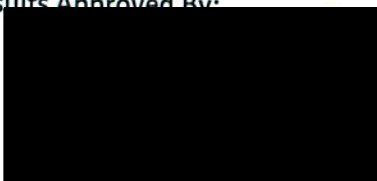
Dear Dr. Khan,

Re.: Serotype Asia 1

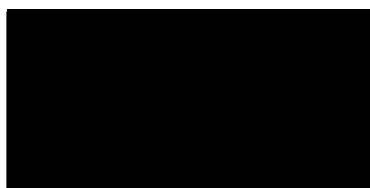
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

Results Approved By:

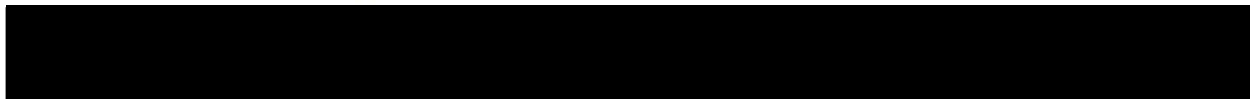


Official Stamp:



Date:

16/10/09



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

Serotype: ASIA1 WRL Ref No: PAK/26/2009 Sender Ref: PK H1 Date collected: 07/07/2009 Date received by WRLFMD: 28/09/2009 Date received for sequencing: 07/10/2009 Species: Buffalo Material used: OS Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R; As1-1C613F/EUR-2B52R No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633	Report date: 14/10/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: none defined Genotype/strain: none designated Sequence filename: PAK09-26.SEQ Date sequence last updated: 14/10/2009 Total no. of comparisons: 339 Min. no. of nt for comparison: 300 Total turn-around time: 16 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: ASIA1 WRL Ref No: PAK/27/2009 Sender Ref: PK H2 Date collected: 07/07/2009 Date received by WRLFMD: 28/09/2009 Date received for sequencing: 07/10/2009 Species: Buffalo Material used: OS Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R; As1-1C613F/EUR-2B52R No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633	Report date: 14/10/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: none defined Genotype/strain: none designated Sequence filename: PAK09-27.SEQ Date sequence last updated: 14/10/2009 Total no. of comparisons: 339 Min. no. of nt for comparison: 300 Total turn-around time: 16 days Sequencing time: 7 days																																																																																								
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# Report on FMDV Asia 1 in Pakistan in 2009

Batch: WRLFMD/2009/00049

Software: MEGA 4.0  
 No. of Taxa : 135  
 Data File : n:\evd\meg\db\fmdv\asia1\PAK2009b.meg  
 Data Title : Asia 1 Pakistan 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 : 638  
 No Of Bootstrap Reps = 1000  
 Only bootstrap values of 70% and above are shown

\* , not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 14 October 2009

