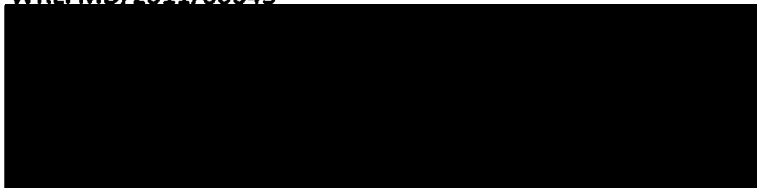




**INSTITUTE FOR ANIMAL HEALTH**  
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath  
**PIRBRIGHT LABORATORY**  
Ash Road,  
Pirbright,  
Surrey,  
GU24 0NF  
Intn Tel: 00 44 1483 232441  
Tel: 01483 232441 Fax: 01483 232621

## **FMD Genotyping Report**

Lab Reference WRL Batch Number: WRLFMD/2011/00043  
Sender Details:

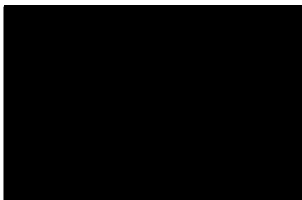


Date Received: 25<sup>th</sup> October 2011  
Country of Origin: Paraguay  
Date Reported: 2nd November 2011

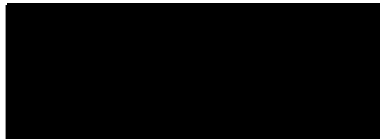
Dear Gerado Bogado Ayala

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/>

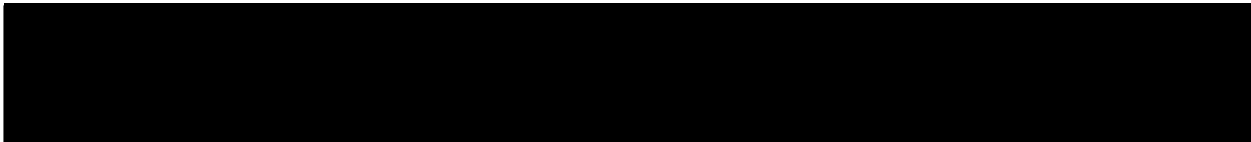
Results Approved By:



Official Stamp:



Date: 2/11/11



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: 2 November 2011

FMDV type O

Country: Paraguay

Period: 2011

No. of samples: 1

BATCH: WRLFMD/2011/00043



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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: PAR/1/2011 Batch No: WRLFMD/2011/00043 Sender Ref: No. 167.788 Location: San Pedro, Paraguay Date collected: Sep-2011 Date received by WRLFMD: 25/10/2011 Date received for sequencing: 31/10/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R O-1C283F/EUR-2B52R	Report date: 02/11/2011 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: EURO-SA Genotype/strain: unnamed Sequence filename: PAR11-01.SEQ Date sequence last updated: 02/11/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3133 Min. no. of nt for comparison: 600 Total turn-around time: 8 days Sequencing time: 2 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/Corrientes/ARG/06 (DQ834727)	ARG06-AA	639	608	0	95.15	4.85	EURO-SA	unnamed
2	O/Tarija/Bol/00 (a) (HQ695738)	BOL00-AC	633	598	0	94.47	5.53	EURO-SA	unnamed
3	O/Potosi/Bol/01 (HQ695739)	BOL01-AB	632	595	1	94.15	5.85	EURO-SA	unnamed
4	O/Tarija/Bol/01 (a) (HQ695740)	BOL01-AC	633	596	0	94.15	5.85	EURO-SA	unnamed
5	O/PAR/2003 (INTA-CONFIDENTIAL)	PAR03-AA	632	594	7	93.99	6.01	EURO-SA	unnamed
6	O/Tarija/BOL/00 (DQ834708)	BOL00-AA	636	597	3	93.87	6.13	EURO-SA	unnamed
7	O/Potosi/Bol/03 (a) (HQ695745)	BOL03-AC	633	594	0	93.84	6.16	EURO-SA	unnamed
8	O/Chuquisaca/BOL/03 (DQ834712)	BOL03-AA	639	599	0	93.74	6.26	EURO-SA	unnamed
9	O/Potosi/BOL/03 (DQ834713)	BOL03-AB	639	599	0	93.74	6.26	EURO-SA	unnamed
10	O/Tarija/BOL/01 (DQ834709)	BOL01-AA	635	595	4	93.70	6.30	EURO-SA	unnamed
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/Corrientes/ARG/06 (DQ834727)	ARG06-AA	639	608	0	95.15	4.85	EURO-SA	unnamed
2	O3/VEN/51 (AJ004645)	VEN51-O3	639	539	0	84.35	15.65	EURO-SA	O <sub>3</sub>
3	O1/BFS 1860/UK/67 (AY593815)	UKG67--G	639	535	0	83.72	16.28	EURO-SA	O <sub>1</sub>
4	O/JAV/5/72 (AJ303509)	JAV72-05	639	529	0	82.79	17.21	ISA-2	unnamed
5	O/ISA/1/74 (AJ303501)	ISA74-01	639	528	0	82.63	17.37	ISA-2	unnamed
6	O/BHU/3/2009	BHU09-03	639	523	0	81.85	18.15	ME-SA	Ind-2001d
7	O/IRN/61/2001 (DQ164896)	IRN01-61	638	522	1	81.82	18.18	ME-SA	Irn-2001
8	O/MYA/7/98 (DQ164925)	MYA98-07	639	522	0	81.69	18.31	SEA	Mya-98
9	O2/Brescia/ITL/47 (M55287)	ITL47--A	635	518	4	81.57	18.43	EURO-SA	O <sub>2</sub>
10	O/ISA/8/83 (AJ303503)	ISA83-08	639	519	0	81.22	18.78	ISA-1	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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# Report on FMDV O in Paraguay in 2011

Batch: WRLFMD/2011/00043

◆ indicates viruses in this batch

Software: MEGA 5.0

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

----- Nucleotide

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

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

Rates and Patterns

----- Uniform rates

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

Data Subset to Use

----- Pairwise deletion

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

No. of Sites : 642

No Of Bootstrap Reps = 1000

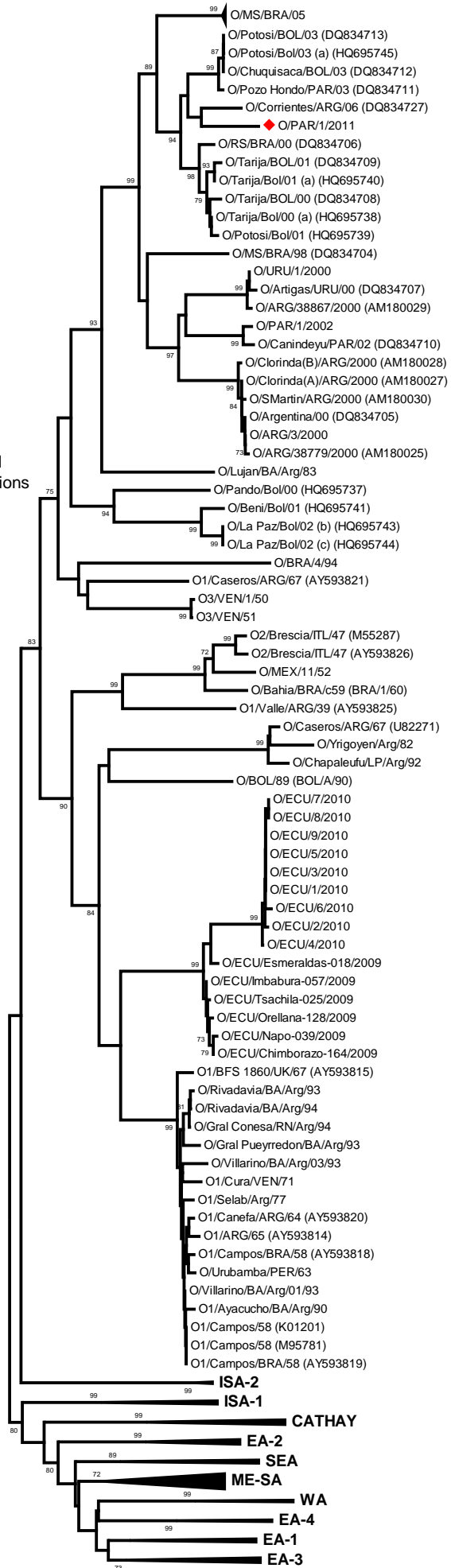
Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 2 November 2011

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EURO-SA