

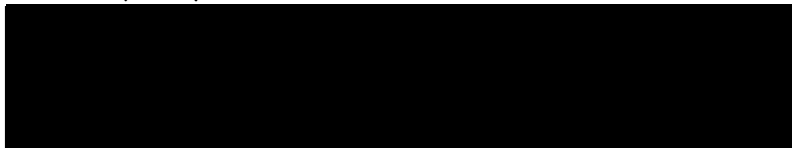


INSTITUTE FOR ANIMAL HEALTH  
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath  
PIRBRIGHT LABORATORY  
Ash Road,  
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Tel: 01483 232441, Fax: 01483 232621

## **FMD Genotyping Report**

Lab Reference WRL Batch Number: WRLFMD/2012/00029

Sender Details:



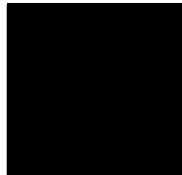
Date Received: 1<sup>st</sup> August 2012  
Country of Origin: Eritrea  
Date Reported: 31<sup>st</sup> August 2012

Dear Dr Tesfaleem Tekleghlorghis,

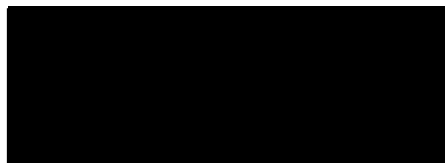
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

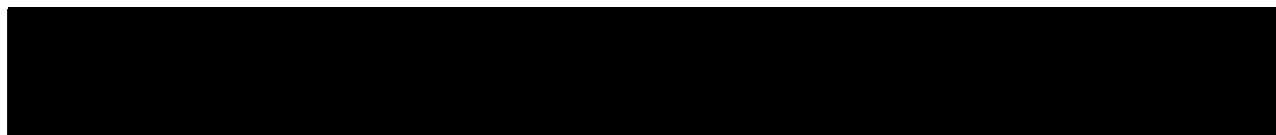
Results Approved By:



Official Stamp:



Date: 3rd Sept. 2012



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: [trish.ryder@iah.ac.uk](mailto:trish.ryder@iah.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: 31 August 2012

FMDV type O

Country: Eritrea

Period: 2011

No. of samples: 14

BATCH: WRLFMD/2012/00029



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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	Report date: 30/08/2012
WRLFMD Ref No: ERI/1/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 317/11	
Location: Betmekae, Maekel region, Eritrea	Topotype: EA-3
Date collected: 16/11/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-01.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/11/2011	ERI11-11	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/12/2011	ERI11-12	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/13/2011	ERI11-13	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/16/2011	ERI11-16	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/2/2011	ERI11-02	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/3/2011	ERI11-03	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/2/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 306/11-1	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 17/11/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-02.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/12/2011	ERI11-12	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/13/2011	ERI11-13	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/16/2011	ERI11-16	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/3/2011	ERI11-03	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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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	Report date: 30/08/2012
WRLFMD Ref No: ERI/3/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 306/11-3	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 17/11/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-03.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/12/2011	ERI11-12	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/13/2011	ERI11-13	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/16/2011	ERI11-16	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/2/2011	ERI11-02	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/find_genotyping/prototypes.htm">http://www.wrlfmd.org/find_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O WRLFMD Ref No: ERI/4/2011 Batch No: WRLFMD/2012/00029 Sender Ref: 307/11-2 Location: Adi-Segudo, Eritrea Date collected: 17/11/2011 Date received by WRLFMD: 01/08/2012 Date received for sequencing: 28/08/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 30/08/2012 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: EA-3 Genotype/strain: unnamed Sequence filename: ERI11-04.SEQ Date sequence last updated: 30/08/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3396 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 2 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ERI/1/2011	ERI11-01	639	637	0	99.69	0.31	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	637	0	99.69	0.31	EA-3	unnamed
3	O/ERI/12/2011	ERI11-12	639	637	0	99.69	0.31	EA-3	unnamed
4	O/ERI/13/2011	ERI11-13	639	637	0	99.69	0.31	EA-3	unnamed
5	O/ERI/16/2011	ERI11-16	639	637	0	99.69	0.31	EA-3	unnamed
6	O/ERI/2/2011	ERI11-02	639	637	0	99.69	0.31	EA-3	unnamed
7	O/ERI/3/2011	ERI11-03	639	637	0	99.69	0.31	EA-3	unnamed
8	O/ETH/59/2011	ETH11-59	639	637	0	99.69	0.31	EA-3	unnamed
9	O/ERI/14/2011	ERI11-14	639	636	0	99.53	0.47	EA-3	unnamed
10	O/ERI/15/2011	ERI11-15	639	636	0	99.53	0.47	EA-3	unnamed
<b>Most Closely Related Reference Viruses</b>									
(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/SUD/2/86 (DQ165075)	SUD86-02	639	587	0	91.86	8.14	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
4	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	550	0	86.07	13.93	ME-SA	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
9	O/K83/79* (AJ303511)	KEN79B83	638	546	1	85.58	14.42	EA-1	unnamed
10	O/KEN/5/2002 (DQ165073)	KEN02-05	639	545	0	85.29	14.71	EA-2	Unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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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	Report date: 30/08/2012
WRLFMD Ref No: ERI/8/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 296/11-1	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-08.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	638	0	99.84	0.16	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	638	0	99.84	0.16	EA-3	unnamed
3	O/ERI/12/2011	ERI11-12	639	638	0	99.84	0.16	EA-3	unnamed
4	O/ERI/13/2011	ERI11-13	639	638	0	99.84	0.16	EA-3	unnamed
5	O/ERI/16/2011	ERI11-16	639	638	0	99.84	0.16	EA-3	unnamed
6	O/ERI/2/2011	ERI11-02	639	638	0	99.84	0.16	EA-3	unnamed
7	O/ERI/3/2011	ERI11-03	639	638	0	99.84	0.16	EA-3	unnamed
8	O/ETH/59/2011	ETH11-59	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/14/2011	ERI11-14	639	637	0	99.69	0.31	EA-3	unnamed
10	O/ERI/15/2011	ERI11-15	639	637	0	99.69	0.31	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	588	0	92.02	7.98	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	557	0	87.17	12.83	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	553	0	86.54	13.46	ME-SA	unnamed
4	O/ETH/3/2004 (FJ798109)	ETH04-03	639	551	0	86.23	13.77	EA-3	unnamed
5	O/MAL/1/98 (DQ165074)	MAL98-01	639	550	0	86.07	13.93	EA-2	unnamed
6	O/UGA/3/2002 (DQ165077)	UGA02-03	639	550	0	86.07	13.93	EA-2	unnamed
7	O/K83/79* (AJ303511)	KEN79B83	638	549	1	86.05	13.95	EA-1	unnamed
8	O/BHU/3/2009	BHU09-03	639	548	0	85.76	14.24	ME-SA	Ind-2001d
9	O/TAN/2/2004	TAN04-02	639	548	0	85.76	14.24	EA-2	unnamed
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	547	1	85.74	14.26	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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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	Report date: 30/08/2012
WRLFMD Ref No: ERI/10/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 297/11-2	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-10.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/17/2011	ERI11-17	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	unnamed
3	O/ERI/1/2011	ERI11-01	639	637	0	99.69	0.31	EA-3	unnamed
4	O/ERI/11/2011	ERI11-11	639	637	0	99.69	0.31	EA-3	unnamed
5	O/ERI/12/2011	ERI11-12	639	637	0	99.69	0.31	EA-3	unnamed
6	O/ERI/13/2011	ERI11-13	639	637	0	99.69	0.31	EA-3	unnamed
7	O/ERI/16/2011	ERI11-16	639	637	0	99.69	0.31	EA-3	unnamed
8	O/ERI/2/2011	ERI11-02	639	637	0	99.69	0.31	EA-3	unnamed
9	O/ERI/3/2011	ERI11-03	639	637	0	99.69	0.31	EA-3	unnamed
10	O/ETH/59/2011	ETH11-59	639	637	0	99.69	0.31	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	587	0	91.86	8.14	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	556	0	87.01	12.99	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	550	0	86.07	13.93	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	549	0	85.92	14.08	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	548	0	85.76	14.24	EA-3	unnamed
6	O/K83/79* (AJ303511)	KEN79B83	638	547	1	85.74	14.26	EA-1	unnamed
7	O/TAN/2/2004	TAN04-02	639	547	0	85.60	14.40	EA-2	unnamed
8	O/UGA/3/2002 (DQ165077)	UGA02-03	639	547	0	85.60	14.40	EA-2	unnamed
9	O/BHU/3/2009	BHU09-03	639	545	0	85.29	14.71	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	544	1	85.27	14.73	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/11/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 297/11-3	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-11.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/12/2011	ERI11-12	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/13/2011	ERI11-13	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/16/2011	ERI11-16	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/2/2011	ERI11-02	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/3/2011	ERI11-03	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/12/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 297/11-4	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-12.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/13/2011	ERI11-13	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/16/2011	ERI11-16	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/2/2011	ERI11-02	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/3/2011	ERI11-03	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/find_genotyping/prototypes.htm">http://www.wrlfmd.org/find_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/13/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 306/11-2	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-13.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/12/2011	ERI11-12	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/16/2011	ERI11-16	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/2/2011	ERI11-02	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/3/2011	ERI11-03	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Im-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/14/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 297/11-5	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-14.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/15/2011	ERI11-15	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/1/2011	ERI11-01	639	638	0	99.84	0.16	EA-3	unnamed
3	O/ERI/11/2011	ERI11-11	639	638	0	99.84	0.16	EA-3	unnamed
4	O/ERI/12/2011	ERI11-12	639	638	0	99.84	0.16	EA-3	unnamed
5	O/ERI/13/2011	ERI11-13	639	638	0	99.84	0.16	EA-3	unnamed
6	O/ERI/16/2011	ERI11-16	639	638	0	99.84	0.16	EA-3	unnamed
7	O/ERI/2/2011	ERI11-02	639	638	0	99.84	0.16	EA-3	unnamed
8	O/ERI/3/2011	ERI11-03	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ETH/59/2011	ETH11-59	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	637	0	99.69	0.31	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	588	0	92.02	7.98	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	557	0	87.17	12.83	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	551	0	86.23	13.77	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	550	0	86.07	13.93	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	549	0	85.92	14.08	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	548	0	85.76	14.24	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	548	0	85.76	14.24	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	547	1	85.74	14.26	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	546	0	85.45	14.55	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	545	1	85.42	14.58	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/15/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 297/11-S1	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-15.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/14/2011	ERI11-14	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/1/2011	ERI11-01	639	638	0	99.84	0.16	EA-3	unnamed
3	O/ERI/11/2011	ERI11-11	639	638	0	99.84	0.16	EA-3	unnamed
4	O/ERI/12/2011	ERI11-12	639	638	0	99.84	0.16	EA-3	unnamed
5	O/ERI/13/2011	ERI11-13	639	638	0	99.84	0.16	EA-3	unnamed
6	O/ERI/16/2011	ERI11-16	639	638	0	99.84	0.16	EA-3	unnamed
7	O/ERI/2/2011	ERI11-02	639	638	0	99.84	0.16	EA-3	unnamed
8	O/ERI/3/2011	ERI11-03	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ETH/59/2011	ETH11-59	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	637	0	99.69	0.31	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	588	0	92.02	7.98	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	557	0	87.17	12.83	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	551	0	86.23	13.77	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	550	0	86.07	13.93	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	549	0	85.92	14.08	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	548	0	85.76	14.24	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	548	0	85.76	14.24	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	547	1	85.74	14.26	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	546	0	85.45	14.55	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	545	1	85.42	14.58	ME-SA	Im-2001

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 30/08/2012
WRLFMD Ref No: ERI/16/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 297/11-S2	
Location: Asmara, Maekel region, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-16.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Swine	No. of Nt determined: 639
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/11/2011	ERI11-01	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/11/2011	ERI11-11	639	639	0	100.00	0.00	EA-3	unnamed
3	O/ERI/12/2011	ERI11-12	639	639	0	100.00	0.00	EA-3	unnamed
4	O/ERI/13/2011	ERI11-13	639	639	0	100.00	0.00	EA-3	unnamed
5	O/ERI/2/2011	ERI11-02	639	639	0	100.00	0.00	EA-3	unnamed
6	O/ERI/3/2011	ERI11-03	639	639	0	100.00	0.00	EA-3	unnamed
7	O/ETH/59/2011	ETH11-59	639	639	0	100.00	0.00	EA-3	unnamed
8	O/ERI/14/2011	ERI11-14	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/15/2011	ERI11-15	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	589	0	92.18	7.82	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	551	0	86.23	13.77	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
6	O/TAN/2/2004	TAN04-02	639	549	0	85.92	14.08	EA-2	unnamed
7	O/UGA/3/2002 (DQ165077)	UGA02-03	639	549	0	85.92	14.08	EA-2	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	547	0	85.60	14.40	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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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	Report date: 30/08/2012
WRLFMD Ref No: ERI/17/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 298/11-1	
Location: Unaminasie, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-17.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTyI	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/10/2011	ERI11-10	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ERI/18/2011	ERI11-18	639	638	0	99.84	0.16	EA-3	unnamed
3	O/ERI/1/2011	ERI11-01	639	637	0	99.69	0.31	EA-3	unnamed
4	O/ERI/11/2011	ERI11-11	639	637	0	99.69	0.31	EA-3	unnamed
5	O/ERI/12/2011	ERI11-12	639	637	0	99.69	0.31	EA-3	unnamed
6	O/ERI/13/2011	ERI11-13	639	637	0	99.69	0.31	EA-3	unnamed
7	O/ERI/16/2011	ERI11-16	639	637	0	99.69	0.31	EA-3	unnamed
8	O/ERI/2/2011	ERI11-02	639	637	0	99.69	0.31	EA-3	unnamed
9	O/ERI/3/2011	ERI11-03	639	637	0	99.69	0.31	EA-3	unnamed
10	O/ETH/59/2011	ETH11-59	639	637	0	99.69	0.31	EA-3	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/find_genotyping/prototypes.htm">http://www.wrlfmd.org/find_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SUD/2/86 (DQ165075)	SUD86-02	639	587	0	91.86	8.14	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	556	0	87.01	12.99	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	550	0	86.07	13.93	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	549	0	85.92	14.08	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	548	0	85.76	14.24	EA-3	unnamed
6	O/K83/79* (AJ303511)	KEN79B83	638	547	1	85.74	14.26	EA-1	unnamed
7	O/TAN/2/2004	TAN04-02	639	547	0	85.60	14.40	EA-2	unnamed
8	O/UGA/3/2002 (DQ165077)	UGA02-03	639	547	0	85.60	14.40	EA-2	unnamed
9	O/BHU/3/2009	BHU09-03	639	545	0	85.29	14.71	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	544	1	85.27	14.73	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

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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	Report date: 30/08/2012
WRLFMD Ref No: ERI/18/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00029	Checked by: D.P. King
Sender Ref: 298/11-2	
Location: Unaminasie, Eritrea	Topotype: EA-3
Date collected: 05/12/2011	Genotype/strain: unnamed
Date received by WRLFMD: 01/08/2012	Sequence filename: ERI11-18.SEQ
Date received for sequencing: 28/08/2012	Date sequence last updated: 30/08/2012
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3396
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 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/ERI/1/2011	ERI11-01	639	638	0	99.84	0.16	EA-3	unnamed
2	O/ERI/10/2011	ERI11-10	639	638	0	99.84	0.16	EA-3	unnamed
3	O/ERI/11/2011	ERI11-11	639	638	0	99.84	0.16	EA-3	unnamed
4	O/ERI/12/2011	ERI11-12	639	638	0	99.84	0.16	EA-3	unnamed
5	O/ERI/13/2011	ERI11-13	639	638	0	99.84	0.16	EA-3	unnamed
6	O/ERI/16/2011	ERI11-16	639	638	0	99.84	0.16	EA-3	unnamed
7	O/ERI/17/2011	ERI11-17	639	638	0	99.84	0.16	EA-3	unnamed
8	O/ERI/2/2011	ERI11-02	639	638	0	99.84	0.16	EA-3	unnamed
9	O/ERI/3/2011	ERI11-03	639	638	0	99.84	0.16	EA-3	unnamed
10	O/ETH/59/2011	ETH11-59	639	638	0	99.84	0.16	EA-3	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/SUD/2/86 (DQ165075)	SUD86-02	639	588	0	92.02	7.98	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	557	0	87.17	12.83	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	551	0	86.23	13.77	ME-SA	unnamed
4	O/MAL/1/98 (DQ165074)	MAL98-01	639	550	0	86.07	13.93	EA-2	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	549	0	85.92	14.08	EA-3	unnamed
6	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
7	O/TAN/2/2004	TAN04-02	639	548	0	85.76	14.24	EA-2	unnamed
8	O/UGA/3/2002 (DQ165077)	UGA02-03	639	548	0	85.76	14.24	EA-2	unnamed
9	O/BHU/3/2009	BHU09-03	639	546	0	85.45	14.55	ME-SA	Ind-2001d
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	545	1	85.42	14.58	ME-SA	Irn-2001

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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# Report on FMDV O in Eritrea in 2011

Batch: WRLFMD/2012/00029

◆ indicates viruses in this batch

Software: MEGA 5.0

Analysis

Analysis ----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

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

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

Rates and Patterns

Rates among Sites ----- Uniform rates

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

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

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

No. of Sites : 642

No Of Bootstrap Reps = 1000

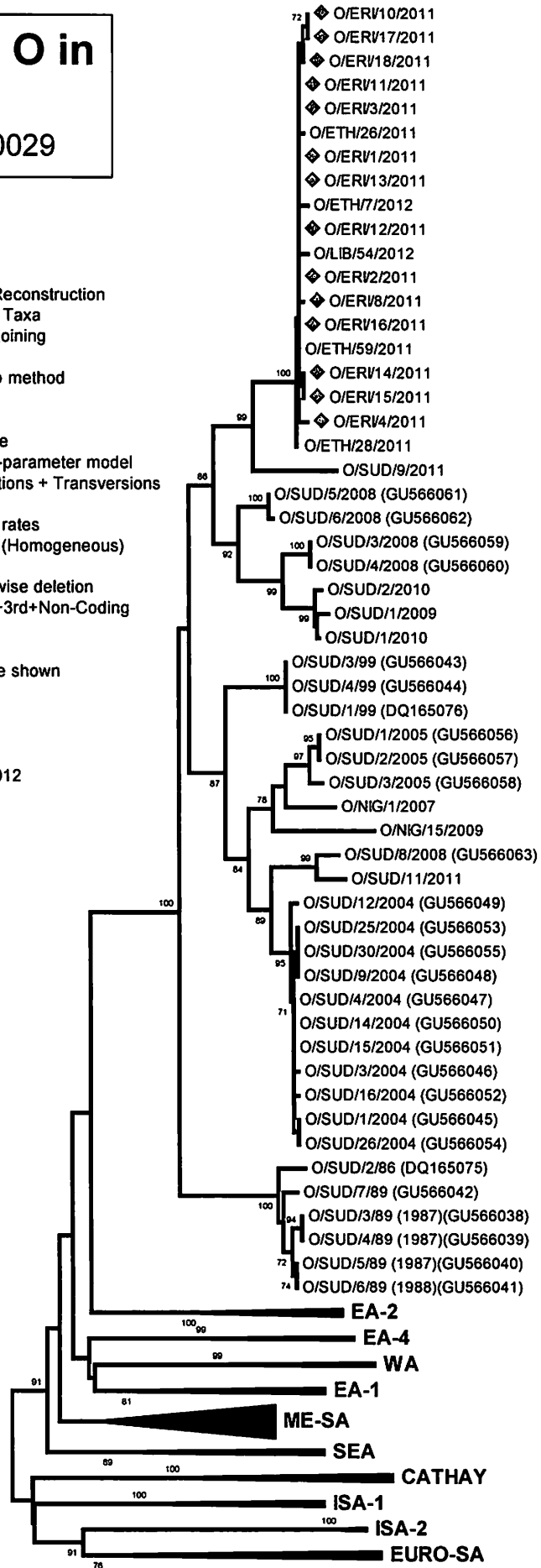
Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 31 August 2012

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EA-3