

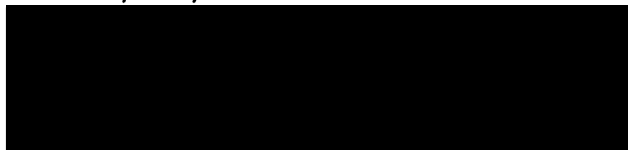


INSTITUTE FOR ANIMAL HEALTH
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath
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Ash Road,
Pirbright,
Surrey,
GU24 0NF
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Tel: 01483 232441 Fax: 01483 232621

FMD Genotyping Report

Lab Reference WRL Batch Number: WRLFMD/2012/00026

Sender Details:



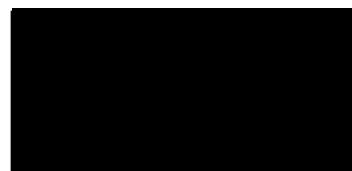
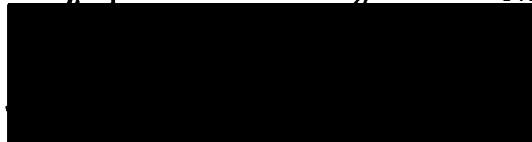
Date Received: 20th July 2012
Country of Origin: Ethiopia
Date Reported: 7th August 2012

Dear Tesfaye Rufael

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/>

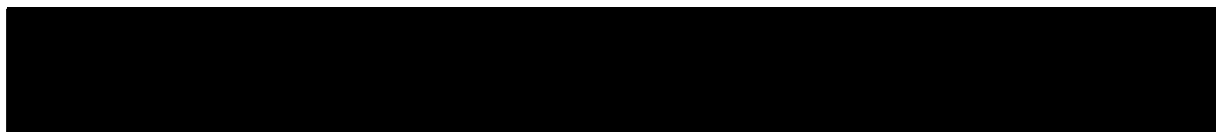
Results Approved By:

Official Stamp:



Date:

7/8/12



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: gareth.shimmon@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: 6 August 2012

FMDV type O

Country: Ethiopia

Period: 2012

No. of samples: 6

BATCH: WRLFMD/2012/00026



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: ETH/3/2012 Batch No: WRLFMD/2012/00026 Sender Ref: ET33/12 Location: E.Belesa, South Gondar, Amhara, Ethiopia Date collected: 03/02/2012 Date received by WRLFMD: 20/07/2012 Date received for sequencing: 02/08/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/08/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: unnamed Sequence filename: ETH12-03.SEQ Date sequence last updated: 06/08/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3317 Min. no. of nt for comparison: 600 Total turn-around time: 17 days Sequencing time: 4 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/ETH/4/2012	ETH12-04	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	621	0	97.18	2.82	EA-3	unnamed
3	O/ETH/23/2008	ETH08-23	639	620	0	97.03	2.97	EA-3	unnamed
4	O/ETH/25/2008	ETH08-25	639	620	0	97.03	2.97	EA-3	unnamed
5	O/ETH/24/2008	ETH08-24	639	619	0	96.87	3.13	EA-3	unnamed
6	O/ETH/26/2007 (FJ798138)	ETH07-26	639	618	0	96.71	3.29	EA-3	unnamed
7	O/ETH/27/2007 (FJ798139)	ETH07-27	639	618	0	96.71	3.29	EA-3	unnamed
8	O/ETH/28/2007 (FJ798140)	ETH07-28	639	618	0	96.71	3.29	EA-3	unnamed
9	O/ETH/13/2008	ETH08-13	639	617	0	96.56	3.44	EA-3	unnamed
10	O/ETH/15/2008	ETH08-15	639	617	0	96.56	3.44	EA-3	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ETH/1/2007 (FJ798137)	ETH07-01	639	621	0	97.18	2.82	EA-3	unnamed
2	O/ETH/3/2004 (FJ798109)	ETH04-03	639	583	0	91.24	8.76	EA-3	unnamed
3	O/SUD/2/86 (DQ165075)	SUD86-02	639	571	0	89.36	10.64	EA-3	unnamed
4	O/K83/79* (AJ303511)	KEN79B83	638	561	1	87.93	12.07	EA-1	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	561	0	87.79	12.21	ME-SA	unnamed
6	O/UGA/5/96 (AJ296327)	UGA96-05	639	554	0	86.70	13.30	EA-1	unnamed
7	O/IND/R2/75* (AF204276)	IND75--A	639	553	0	86.54	13.46	ME-SA	unnamed
8	O/K40/84*	KEN84-40	639	553	0	86.54	13.46	EA-1	unnamed
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	552	0	86.38	13.62	ME-SA	PanAsia
10	O/KEN/5/2002 (DQ165073)	KEN02-05	639	550	0	86.07	13.93	EA-2	Unnamed

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 WRLFMD Ref No: ETH/4/2012 Batch No: WRLFMD/2012/00026 Sender Ref: ET34/12 Location: BLD Special Zone, West Gojam, Amhara, Ethiopia Date collected: 09/02/2012 Date received by WRLFMD: 20/07/2012 Date received for sequencing: 02/08/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/08/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: unnamed Sequence filename: ETH12-04.SEQ Date sequence last updated: 06/08/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3317 Min. no. of nt for comparison: 600 Total turn-around time: 17 days Sequencing time: 4 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/ETH/3/2012	ETH12-03	639	639	0	100.00	0.00	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	621	0	97.18	2.82	EA-3	unnamed
3	O/ETH/23/2008	ETH08-23	639	620	0	97.03	2.97	EA-3	unnamed
4	O/ETH/25/2008	ETH08-25	639	620	0	97.03	2.97	EA-3	unnamed
5	O/ETH/24/2008	ETH08-24	639	619	0	96.87	3.13	EA-3	unnamed
6	O/ETH/26/2007 (FJ798138)	ETH07-26	639	618	0	96.71	3.29	EA-3	unnamed
7	O/ETH/27/2007 (FJ798139)	ETH07-27	639	618	0	96.71	3.29	EA-3	unnamed
8	O/ETH/28/2007 (FJ798140)	ETH07-28	639	618	0	96.71	3.29	EA-3	unnamed
9	O/ETH/13/2008	ETH08-13	639	617	0	96.56	3.44	EA-3	unnamed
10	O/ETH/15/2008	ETH08-15	639	617	0	96.56	3.44	EA-3	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ETH/1/2007 (FJ798137)	ETH07-01	639	621	0	97.18	2.82	EA-3	unnamed
2	O/ETH/3/2004 (FJ798109)	ETH04-03	639	583	0	91.24	8.76	EA-3	unnamed
3	O/SUD/2/86 (DQ165075)	SUD86-02	639	571	0	89.36	10.64	EA-3	unnamed
4	O/K83/79* (AJ303511)	KEN79B83	638	561	1	87.93	12.07	EA-1	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	561	0	87.79	12.21	ME-SA	unnamed
6	O/UGA/5/96 (AJ296327)	UGA96-05	639	554	0	86.70	13.30	EA-1	unnamed
7	O/IND/R2/75* (AF204276)	IND75--A	639	553	0	86.54	13.46	ME-SA	unnamed
8	O/K40/84*	KEN84-40	639	553	0	86.54	13.46	EA-1	unnamed
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	552	0	86.38	13.62	ME-SA	PanAsia
10	O/KEN/5/2002 (DQ165073)	KEN02-05	639	550	0	86.07	13.93	EA-2	Unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: ETH/7/2012 Batch No: WRLFMD/2012/00026 Sender Ref: ET29/12 Location: Raya Azabo, Southern Zone, Tigray, Ethiopia Date collected: 17/02/2012 Date received by WRLFMD: 20/07/2012 Date received for sequencing: 02/08/2012 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/08/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: unnamed Sequence filename: ETH12-07.SEQ Date sequence last updated: 06/08/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3317 Min. no. of nt for comparison: 600 Total turn-around time: 17 days Sequencing time: 4 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/ETH/59/2011	ETH11-59	639	637	0	99.69	0.31	EA-3	unnamed
2	O/ETH/26/2011	ETH11-26	639	636	0	99.53	0.47	EA-3	unnamed
3	O/ETH/28/2011	ETH11-28	639	636	0	99.53	0.47	EA-3	unnamed
4	O/LIB/54/2012	LIB12-54	639	635	0	99.37	0.63	EA-3	unnamed
5	O/SUD/5/2008 (GU566061)	SUD08-05	639	607	0	94.99	5.01	EA-3	unnamed
6	O/SUD/6/2008 (GU566062)	SUD08-06	639	606	0	94.84	5.16	EA-3	unnamed
7	O/SUD/3/2008 (GU566059)	SUD08-03	639	599	0	93.74	6.26	EA-3	unnamed
8	O/SUD/4/2008 (GU566060)	SUD08-04	639	599	0	93.74	6.26	EA-3	unnamed
9	O/SUD/1/99 (DQ165076)	SUD99-01	639	593	0	92.80	7.20	EA-3	unnamed
10	O/SUD/3/99 (GU566043)	SUD99-03	639	593	0	92.80	7.20	EA-3	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
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/IND/53/79 (AF292107)	IND79A53	639	552	0	86.38	13.62	ME-SA	unnamed
4	O/ETH/3/2004 (FJ798109)	ETH04-03	639	550	0	86.07	13.93	EA-3	unnamed
5	O/MAL/1/98 (DQ165074)	MAL98-01	639	549	0	85.92	14.08	EA-2	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/IRN/61/2001 (DQ164896)	IRN01-61	638	546	1	85.58	14.42	ME-SA	Irn-2001
10	O/BHU/3/2009	BHU09-03	639	545	0	85.29	14.71	ME-SA	Ind-2001d

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: ETH/11/2012 Batch No: WRLFMD/2012/00026 Sender Ref: ET38/12 Location: Awabel, East Gojam, Amhara, Ethiopia Date collected: 20/05/2012 Date received by WRLFMD: 20/07/2012 Date received for sequencing: 02/08/2012 Species: Cattle And Sheep Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/08/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: unnamed Sequence filename: ETH12-11.SEQ Date sequence last updated: 06/08/2012 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3317 Min. no. of nt for comparison: 600 Total turn-around time: 17 days Sequencing time: 4 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/ETH/11/2011	ETH11-11	639	634	0	99.22	0.78	EA-3	unnamed
2	O/ETH/12/2012	ETH12-12	639	634	0	99.22	0.78	EA-3	unnamed
3	O/ETH/12/2011	ETH11-12	639	633	0	99.06	0.94	EA-3	unnamed
4	O/ETH/13/2011	ETH11-13	639	633	0	99.06	0.94	EA-3	unnamed
5	O/ETH/15/2012	ETH12-15	639	633	0	99.06	0.94	EA-3	unnamed
6	O/ETH/3/2011	ETH11-03	639	633	0	99.06	0.94	EA-3	unnamed
7	O/ETH/4/2011	ETH11-04	639	633	0	99.06	0.94	EA-3	unnamed
8	O/ETH/42/2011	ETH11-42	639	633	0	99.06	0.94	EA-3	unnamed
9	O/ETH/5/2011	ETH11-05	639	633	0	99.06	0.94	EA-3	unnamed
10	O/ETH/18/2011	ETH11-18	639	632	0	98.90	1.10	EA-3	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ETH/1/2007 (FJ798137)	ETH07-01	639	594	0	92.96	7.04	EA-3	unnamed
2	O/ETH/3/2004 (FJ798109)	ETH04-03	639	588	0	92.02	7.98	EA-3	unnamed
3	O/SUD/2/86 (DQ165075)	SUD86-02	639	557	0	87.17	12.83	EA-3	unnamed
4	O/IND/R2/75* (AF204276)	IND75--A	639	550	0	86.07	13.93	ME-SA	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	548	1	85.89	14.11	EA-1	unnamed
6	O/K40/84*	KEN84-40	639	547	0	85.60	14.40	EA-1	unnamed
7	O/IND/53/79 (AF292107)	IND79A53	639	544	0	85.13	14.87	ME-SA	unnamed
8	O/UGA/5/96 (AJ296327)	UGA96-05	639	544	0	85.13	14.87	EA-1	unnamed
9	O/ETH/2/2006 (FJ798127)	ETH06-02	639	543	0	84.98	15.02	EA-3	unnamed
10	O/BHU/3/2009	BHU09-03	639	541	0	84.66	15.34	ME-SA	Ind-2001d

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: 06/08/2012
WRLFMD Ref No: ETH/12/2012	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00026	Checked by: D.P. King
Sender Ref: ET39/12	
Location: Awabel, East Gojam, Amhara, Ethiopia	Topotype: EA-3
Date collected: 20/05/2012	Genotype/strain: unnamed
Date received by WRLFMD: 20/07/2012	Sequence filename: ETH12-12.SEQ
Date received for sequencing: 02/08/2012	Date sequence last updated: 06/08/2012
Species: Cattle And Sheep	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: 3317
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 17 days
	Sequencing time: 4 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/ETH/11/2011	ETH11-11	639	635	0	99.37	0.63	EA-3	unnamed
2	O/ETH/46/2011	ETH11-46	639	635	0	99.37	0.63	EA-3	unnamed
3	O/ETH/11/2012	ETH12-11	639	634	0	99.22	0.78	EA-3	unnamed
4	O/ETH/13/2011	ETH11-13	639	634	0	99.22	0.78	EA-3	unnamed
5	O/ETH/15/2012	ETH12-15	639	634	0	99.22	0.78	EA-3	unnamed
6	O/ETH/3/2011	ETH11-03	639	634	0	99.22	0.78	EA-3	unnamed
7	O/ETH/4/2011	ETH11-04	639	634	0	99.22	0.78	EA-3	unnamed
8	O/ETH/42/2011	ETH11-42	639	634	0	99.22	0.78	EA-3	unnamed
9	O/ETH/5/2011	ETH11-05	639	634	0	99.22	0.78	EA-3	unnamed
10	O/ETH/18/2011	ETH11-18	639	633	0	99.06	0.94	EA-3	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ETH/1/2007 (FJ798137)	ETH07-01	639	597	0	93.43	6.57	EA-3	unnamed
2	O/ETH/3/2004 (FJ798109)	ETH04-03	639	591	0	92.49	7.51	EA-3	unnamed
3	O/SUD/2/86 (DQ165075)	SUD86-02	639	558	0	87.32	12.68	EA-3	unnamed
4	O/K83/79* (AJ303511)	KEN79B83	638	549	1	86.05	13.95	EA-1	unnamed
5	O/IND/R2/75* (AF204276)	IND75--A	639	549	0	85.92	14.08	ME-SA	unnamed
6	O/K40/84*	KEN84-40	639	548	0	85.76	14.24	EA-1	unnamed
7	O/IND/53/79 (AF292107)	IND79A53	639	546	0	85.45	14.55	ME-SA	unnamed
8	O/ETH/2/2006 (FJ798127)	ETH06-02	639	545	0	85.29	14.71	EA-3	unnamed
9	O/UGA/5/96 (AJ296327)	UGA96-05	639	545	0	85.29	14.71	EA-1	unnamed
10	O/BHU/3/2009	BHU09-03	639	543	0	84.98	15.02	ME-SA	Ind-2001d

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: 06/08/2012
WRLFMD Ref No: ETH/15/2012	Reported by: N.J. Knowles
Batch No: WRLFMD/2012/00026	Checked by: D.P. King
Sender Ref: ET48/12	
Location: not given, Ethiopia	Topotype: EA-3
Date collected: 20/06/2012	Genotype/strain: unnamed
Date received by WRLFMD: 20/07/2012	Sequence filename: ETH12-15.SEQ
Date received for sequencing: 02/08/2012	Date sequence last updated: 06/08/2012
Species: Not Known	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: 3317
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 17 days
	Sequencing time: 4 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/ETH/11/2011	ETH11-11	639	634	0	99.22	0.78	EA-3	unnamed
2	O/ETH/12/2012	ETH12-12	639	634	0	99.22	0.78	EA-3	unnamed
3	O/ETH/9/2011	ETH11-09	639	634	0	99.22	0.78	EA-3	unnamed
4	O/ETH/10/2011	ETH11-10	639	633	0	99.06	0.94	EA-3	unnamed
5	O/ETH/11/2012	ETH12-11	639	633	0	99.06	0.94	EA-3	unnamed
6	O/ETH/13/2011	ETH11-13	639	633	0	99.06	0.94	EA-3	unnamed
7	O/ETH/3/2011	ETH11-03	639	633	0	99.06	0.94	EA-3	unnamed
8	O/ETH/4/2011	ETH11-04	639	633	0	99.06	0.94	EA-3	unnamed
9	O/ETH/42/2011	ETH11-42	639	633	0	99.06	0.94	EA-3	unnamed
10	O/ETH/5/2011	ETH11-05	639	633	0	99.06	0.94	EA-3	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ETH/1/2007 (FJ798137)	ETH07-01	639	594	0	92.96	7.04	EA-3	unnamed
2	O/ETH/3/2004 (FJ798109)	ETH04-03	639	590	0	92.33	7.67	EA-3	unnamed
3	O/SUD/2/86 (DQ165075)	SUD86-02	639	559	0	87.48	12.52	EA-3	unnamed
4	O/IND/R2/75* (AF204276)	IND75--A	639	550	0	86.07	13.93	ME-SA	unnamed
5	O/K40/84*	KEN84-40	639	547	0	85.60	14.40	EA-1	unnamed
6	O/K83/79* (AJ303511)	KEN79B83	638	546	1	85.58	14.42	EA-1	unnamed
7	O/ETH/2/2006 (FJ798127)	ETH06-02	639	545	0	85.29	14.71	EA-3	unnamed
8	O/IND/53/79 (AF292107)	IND79A53	639	545	0	85.29	14.71	ME-SA	unnamed
9	O/UGA/5/96 (AJ296327)	UGA96-05	639	544	0	85.13	14.87	EA-1	unnamed
10	O/BHU/3/2009	BHU09-03	639	542	0	84.82	15.18	ME-SA	Ind-2001d

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV O in Ethiopia in 2012

Batch: WRLFMD/2012/00026

◆ 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

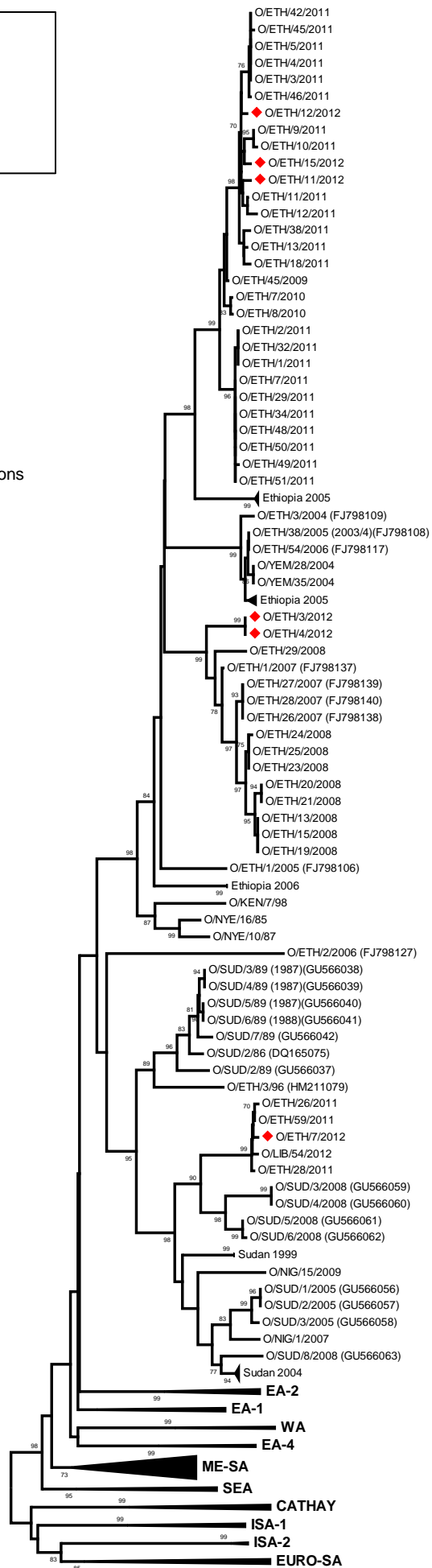
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 06 August 2012

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