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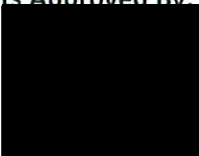
FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2010/00012
Sender Details: 

Date Received: 18th March 2010
Country of Origin: Ethiopia
Date Reported: 20th April 2010

Dear Tesfaye Rufael and Mesfin Sahle,

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: 22/4/2010

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)

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Date: 20 April 2010

FMDV type O

Country: Ethiopia

Period: 2010

No. of isolates: 3

BATCH: WRLFMD/2010/00012



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: ETH/7/2010 Batch No: WRLFMD/2010/00012 Sender Ref: ETH/2003/10/BGS Location: Shifaro, Goba, Bale, Oromia, Ethiopia Date collected: 10/02/2010 Date received by WRLFMD: 18/03/2010 Date received for sequencing: 29/03/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 20/04/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: Unnamed Sequence filename: ETH10-07.SEQ Date sequence last updated: 20/04/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2358 Min. no. of nt for comparison: 300 Total turn-around time: 33 days Sequencing time: 22 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/8/2010	ETH10-08	639	638	0	99.84	0.16	EA-3	unnamed
2	O/ETH/45/2009	ETH09-45	639	636	0	99.53	0.47	EA-3	unnamed
3	O/ETH/54/2005 (FJ798118)	ETH05-54	639	607	0	94.99	5.01	EA-3	unnamed
4	O/ETH/57/2005 (FJ798121)	ETH05-57	639	607	0	94.99	5.01	EA-3	unnamed
5	O/ETH/66/2005 (FJ798125)	ETH05-66	639	607	0	94.99	5.01	EA-3	unnamed
6	O/ETH/67/2005 (FJ798126)	ETH05-67	639	607	0	94.99	5.01	EA-3	unnamed
7	O/ETH/63/2005 (FJ798122)	ETH05-63	639	606	0	94.84	5.16	EA-3	unnamed
8	O/ETH/64/2005 (FJ798123)	ETH05-64	639	606	0	94.84	5.16	EA-3	unnamed
9	O/ETH/65/2005 (FJ798124)	ETH05-65	639	606	0	94.84	5.16	EA-3	unnamed
10	O/ETH/55/2005 (FJ798119)	ETH05-55	639	605	0	94.68	5.32	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	599	0	93.74	6.26	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	565	0	88.42	11.58	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/IND/53/79 (AF292107)	IND79A53	639	547	0	85.60	14.40	ME-SA	unnamed
7	O/K40/84*	KEN84-40	639	547	0	85.60	14.40	EA-1	unnamed
8	O/BHU/3/2009	BHU09-03	639	544	0	85.13	14.87	ME-SA	Ind-2001d
9	O/UGA/5/96 (AJ296327)	UGA96-05	639	544	0	85.13	14.87	EA-1	unnamed
10	O/ETH/2/2006 (FJ798127)	ETH06-02	639	541	0	84.66	15.34	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: ETH/8/2010 Batch No: WRLFMD/2010/00012 Sender Ref: ETH/2004/10/BGS Location: Shifaro, Goba, Bale, Oromia, Ethiopia Date collected: 10/02/2010 Date received by WRLFMD: 18/03/2010 Date received for sequencing: 29/03/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 20/04/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: Unnamed Sequence filename: ETH10-08.SEQ Date sequence last updated: 20/04/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2358 Min. no. of nt for comparison: 300 Total turn-around time: 33 days Sequencing time: 22 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/7/2010	ETH10-07	639	638	0	99.84	0.16	EA-3	unnamed
2	O/ETH/45/2009	ETH09-45	639	635	0	99.37	0.63	EA-3	unnamed
3	O/ETH/54/2005 (FJ798118)	ETH05-54	639	606	0	94.84	5.16	EA-3	unnamed
4	O/ETH/57/2005 (FJ798121)	ETH05-57	639	606	0	94.84	5.16	EA-3	unnamed
5	O/ETH/66/2005 (FJ798125)	ETH05-66	639	606	0	94.84	5.16	EA-3	unnamed
6	O/ETH/67/2005 (FJ798126)	ETH05-67	639	606	0	94.84	5.16	EA-3	unnamed
7	O/ETH/63/2005 (FJ798122)	ETH05-63	639	605	0	94.68	5.32	EA-3	unnamed
8	O/ETH/64/2005 (FJ798123)	ETH05-64	639	605	0	94.68	5.32	EA-3	unnamed
9	O/ETH/65/2005 (FJ798124)	ETH05-65	639	605	0	94.68	5.32	EA-3	unnamed
10	O/ETH/55/2005 (FJ798119)	ETH05-55	639	604	0	94.52	5.48	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	598	0	93.58	6.42	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	564	0	88.26	11.74	EA-3	unnamed
4	O/IND/R2/75* (AF204276)	IND75--A	639	549	0	85.92	14.08	ME-SA	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	547	1	85.74	14.26	EA-1	unnamed
6	O/IND/53/79 (AF292107)	IND79A53	639	546	0	85.45	14.55	ME-SA	unnamed
7	O/K40/84*	KEN84-40	639	546	0	85.45	14.55	EA-1	unnamed
8	O/UGA/5/96 (AJ296327)	UGA96-05	639	544	0	85.13	14.87	EA-1	unnamed
9	O/BHU/3/2009	BHU09-03	639	543	0	84.98	15.02	ME-SA	Ind-2001d
10	O/ETH/2/2006 (FJ798127)	ETH06-02	639	540	0	84.51	15.49	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: ETH/9/2010 Batch No: WRLFMD/2010/00012 Sender Ref: ETH/2005/10/WKS Location: Selambar, Kucha, Walista, SNNP, Ethiopia Date collected: 12/02/2010 Date received by WRLFMD: 18/03/2010 Date received for sequencing: 31/03/2010 Species: Cattle Material used: BTY2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 20/04/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: unnamed Sequence filename: ETH10-09.SEQ Date sequence last updated: 20/04/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2358 Min. no. of nt for comparison: 300 Total turn-around time: 33 days Sequencing time: 20 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/21/2006 (FJ798131)	ETH06-21	639	622	0	97.34	2.66	EA-3	unnamed
2	O/ETH/19/2006 (FJ798129)	ETH06-19	639	621	0	97.18	2.82	EA-3	unnamed
3	O/ETH/4/2006 (FJ798128)	ETH06-04	639	621	0	97.18	2.82	EA-3	unnamed
4	O/ETH/43/2006 (FJ798133)	ETH06-43	639	621	0	97.18	2.82	EA-3	unnamed
5	O/ETH/2/2006 (FJ798127)	ETH06-02	639	620	0	97.03	2.97	EA-3	unnamed
6	O/ETH/20/2006 (FJ798130)	ETH06-20	639	619	0	96.87	3.13	EA-3	unnamed
7	O/ETH/27/2006 (FJ798132)	ETH06-27	639	618	0	96.71	3.29	EA-3	unnamed
8	O/SUD/2/86 (DQ165075)	SUD86-02	639	566	0	88.58	11.42	EA-3	unnamed
9	O/SUD/5/89 (1987)(GU566040)	SUD89-05	639	565	0	88.42	11.58	EA-3	unnamed
10	O/SUD/6/89 (1988)(GU566041)	SUD89-06	639	565	0	88.42	11.58	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/2/2006 (FJ798127)	ETH06-02	639	620	0	97.03	2.97	EA-3	unnamed
2	O/SUD/2/86 (DQ165075)	SUD86-02	639	566	0	88.58	11.42	EA-3	unnamed
3	O/ETH/1/2007 (FJ798137)	ETH07-01	639	550	0	86.07	13.93	EA-3	unnamed
4	O/ETH/3/2004 (FJ798109)	ETH04-03	639	543	0	84.98	15.02	EA-3	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	542	0	84.82	15.18	ME-SA	unnamed
6	O/K40/84*	KEN84-40	639	542	0	84.82	15.18	EA-1	unnamed
7	O/K83/79* (AJ303511)	KEN79B83	638	540	1	84.64	15.36	EA-1	unnamed
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	540	0	84.51	15.49	ME-SA	Ind-2001a
9	O/TAI/189/87* (TRRL)	TAI87-AC	639	539	0	84.35	15.65	SEA	unnamed
10	O/UGA/17/98	UGA98-17	639	539	0	84.35	15.65	EA-4	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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