

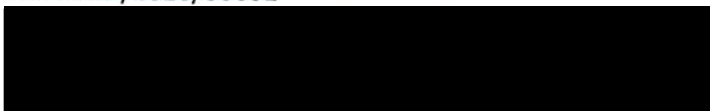


INSTITUTE FOR ANIMAL HEALTH
Director: Professor Martin W. Shirley, PhD
PIRBRIGHT LABORATORY
Ash Road,
Pirbright,
Surrey,
GU24 0NF
Intn Tel: 00 44 1483 232441
Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2010/00002

Sender Details:



Date Received: 20th January 2010

Country of Origin: Eritrea

Date Reported: 15th January 2010

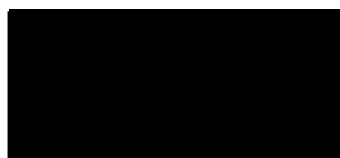
Dear Dr. Tekleghiorghis,

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:

15/2/10



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: 10 February 2010

FMDV type A

Country: Eritrea

Period: 2006-2009

No. of isolates: 7

BATCH: WRLFMD/2010/00002



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FAO World Reference Laboratory for FMD Genotyping Report

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

Page 1 of 1

Serotype: A	Report date: 10/02/2010
WRLFMD Ref No: ERI/1/2006	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00002	Checked by: D.P. King
Sender Ref: 224/06	
Location: Una Mnasiie, Eritrea	Topotype: AFRICA (G-IV)
Date collected: 15/12/2006	Genotype/strain: Unnamed
Date received by WRLFMD: 20/01/2010	Sequence filename: ERI06-01.SEQ
Date received for sequencing: 04/02/2010	Date sequence last updated: 09/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1216
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 21 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/1/2008	ERI08-01	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
2	A/ERI/4/2007	ERI07-04	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
3	A/ERI/16/2009	ERI09-16	639	634	0	99.22	0.78	AFRICA (G-IV)	unnamed
4	A/ERI/5/2006	ERI06-05	639	633	0	99.06	0.94	AFRICA (G-IV)	unnamed
5	A/SUD/1/2006 (GU566069)	SUD06-01	639	633	0	99.06	0.94	AFRICA (G-IV)	unnamed
6	A/ERI/5/2008	ERI08-05	639	628	0	98.28	1.72	AFRICA (G-IV)	unnamed
7	A/SUD/3/2006 (GU566070)	SUD06-03	639	623	0	97.50	2.50	AFRICA (G-IV)	unnamed
8	A/ERI/40/2009	ERI09-40	639	622	0	97.34	2.66	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	579	0	90.61	9.39	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	579	0	90.61	9.39	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	549	0	85.92	14.08	AFRICA (G-IV)	unnamed
2	A/UGA/13/66	UGA66-13	639	539	0	84.35	15.65	AFRICA (G-VII)	unnamed
3	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	539	0	84.35	15.65	AFRICA (G-III)	unnamed
4	A/KEN/42/66 (K18/66)	KEN66-42	639	538	0	84.19	15.81	AFRICA (G-I)	unnamed
5	A/GHA/16/73	GHA73-16	636	534	0	83.96	16.04	AFRICA (G-VI)	unnamed
6	A/NGR/2/73	NGR73-02	639	535	0	83.72	16.28	AFRICA (G-V)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	522	0	81.69	18.31	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	520	0	81.38	18.62	EURO-SA	A12
9	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	514	0	80.44	19.56	EURO-SA	A24
10	A23/Kitale/KEN/64 (AY593766)	KEN64-AB	639	511	0	79.97	20.03	AFRICA (G-VIII)	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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

Page 1 of 1

Serotype: A WRLFMD Ref No: ERI/5/2006 Batch No: WRLFMD/2010/00002 Sender Ref: 225/06 Location: Asmara, Eritrea Date collected: 01/01/2006 Date received by WRLFMD: 20/01/2010 Date received for sequencing: 04/02/2010 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 10/02/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: AFRICA (G-IV) Genotype/strain: Unnamed Sequence filename: ERI06-05.SEQ Date sequence last updated: 09/02/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 1216 Min. no. of nt for comparison: 300 Total turn-around time: 21 days Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/16/2009	ERI09-16	639	638	0	99.84	0.16	AFRICA (G-IV)	unnamed
2	A/ERI/1/2008	ERI08-01	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
3	A/ERI/4/2007	ERI07-04	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
4	A/ERI/1/2006	ERI06-01	639	633	0	99.06	0.94	AFRICA (G-IV)	unnamed
5	A/SUD/1/2006 (GU566069)	SUD06-01	639	633	0	99.06	0.94	AFRICA (G-IV)	unnamed
6	A/ERI/5/2008	ERI08-05	639	628	0	98.28	1.72	AFRICA (G-IV)	unnamed
7	A/SUD/3/2006 (GU566070)	SUD06-03	639	623	0	97.50	2.50	AFRICA (G-IV)	unnamed
8	A/ERI/40/2009	ERI09-40	639	622	0	97.34	2.66	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	575	0	89.98	10.02	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	575	0	89.98	10.02	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	547	0	85.60	14.40	AFRICA (G-IV)	unnamed
2	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	537	0	84.04	15.96	AFRICA (G-III)	unnamed
3	A/GHA/16/73	GHA73-16	636	534	0	83.96	16.04	AFRICA (G-VI)	unnamed
4	A/KEN/42/66 (K18/66)	KEN66-42	639	536	0	83.88	16.12	AFRICA (G-I)	unnamed
5	A/UGA/13/66	UGA66-13	639	535	0	83.72	16.28	AFRICA (G-VII)	unnamed
6	A/NGR/2/73	NGR73-02	639	533	0	83.41	16.59	AFRICA (G-V)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	520	0	81.38	18.62	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	516	0	80.75	19.25	EURO-SA	A12
9	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	510	0	79.81	20.19	EURO-SA	A24
10	A/Alem/ARG/81 (AJ306219)	ARG81--A	639	509	0	79.66	20.34	EURO-SA	A-81

nt, nucleotides

*, not a WRLFMD reference number

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Page 1 of 1

Serotype: A	Report date: 10/02/2010
WRLFMD Ref No: ERI/4/2007	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00002	Checked by: D.P. King
Sender Ref: 75/07-2	
Location: Paradizo, Asmara, Eritrea	Topotype: AFRICA (G-IV)
Date collected: 14/02/2007	Genotype/strain: Unnamed
Date received by WRLFMD: 20/01/2010	Sequence filename: ERI07-04.SEQ
Date received for sequencing: 04/02/2010	Date sequence last updated: 09/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1216
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 21 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/1/2008	ERI08-01	639	639	0	100.00	0.00	AFRICA (G-IV)	unnamed
2	A/ERI/16/2009	ERI09-16	639	637	0	99.69	0.31	AFRICA (G-IV)	unnamed
3	A/ERI/1/2006	ERI06-01	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
4	A/ERI/5/2006	ERI06-05	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
5	A/SUD/1/2006 (GU566069)	SUD06-01	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
6	A/ERI/5/2008	ERI08-05	639	631	0	98.75	1.25	AFRICA (G-IV)	unnamed
7	A/SUD/3/2006 (GU566070)	SUD06-03	639	626	0	97.97	2.03	AFRICA (G-IV)	unnamed
8	A/ERI/40/2009	ERI09-40	639	625	0	97.81	2.19	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	578	0	90.45	9.55	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	578	0	90.45	9.55	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	548	0	85.76	14.24	AFRICA (G-IV)	unnamed
2	A/UGA/13/66	UGA66-13	639	538	0	84.19	15.81	AFRICA (G-VII)	unnamed
3	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	538	0	84.19	15.81	AFRICA (G-III)	unnamed
4	A/KEN/42/66 (K18/66)	KEN66-42	639	537	0	84.04	15.96	AFRICA (G-I)	unnamed
5	A/GHA/16/73	GHA73-16	636	533	0	83.81	16.19	AFRICA (G-VI)	unnamed
6	A/NGR/2/73	NGR73-02	639	534	0	83.57	16.43	AFRICA (G-V)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	521	0	81.53	18.47	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	519	0	81.22	18.78	EURO-SA	A12
9	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	513	0	80.28	19.72	EURO-SA	A24
10	A/Alem/ARG/81 (AJ306219)	ARG81--A	639	511	0	79.97	20.03	EURO-SA	A-81

nt, nucleotides

*, not a WRLFMD reference number

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

Page 1 of 1

Serotype: A	Report date: 10/02/2010
WRLFMD Ref No: ERI/1/2008	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00002	Checked by: D.P. King
Sender Ref: 003/08	
Location: Asmara, Eritrea	Topotype: AFRICA (G-IV)
Date collected: 04/01/2008	Genotype/strain: Unnamed
Date received by WRLFMD: 20/01/2010	Sequence filename: ERI08-01.SEQ
Date received for sequencing: 04/02/2010	Date sequence last updated: 09/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C612F/EUR-2B52R	Total no. of comparisons: 1216
	Min. no. of nt for comparison: 300
	Total turn-around time: 21 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/4/2007	ERI07-04	639	639	0	100.00	0.00	AFRICA (G-IV)	unnamed
2	A/ERI/16/2009	ERI09-16	639	637	0	99.69	0.31	AFRICA (G-IV)	unnamed
3	A/ERI/1/2006	ERI06-01	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
4	A/ERI/5/2006	ERI06-05	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
5	A/SUD/1/2006 (GU566069)	SUD06-01	639	636	0	99.53	0.47	AFRICA (G-IV)	unnamed
6	A/ERI/5/2008	ERI08-05	639	631	0	98.75	1.25	AFRICA (G-IV)	unnamed
7	A/SUD/3/2006 (GU566070)	SUD06-03	639	626	0	97.97	2.03	AFRICA (G-IV)	unnamed
8	A/ERI/40/2009	ERI09-40	639	625	0	97.81	2.19	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	578	0	90.45	9.55	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	578	0	90.45	9.55	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	548	0	85.76	14.24	AFRICA (G-IV)	unnamed
2	A/UGA/13/66	UGA66-13	639	538	0	84.19	15.81	AFRICA (G-VII)	unnamed
3	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	538	0	84.19	15.81	AFRICA (G-III)	unnamed
4	A/KEN/42/66 (K18/66)	KEN66-42	639	537	0	84.04	15.96	AFRICA (G-I)	unnamed
5	A/GHA/16/73	GHA73-16	636	533	0	83.81	16.19	AFRICA (G-VI)	unnamed
6	A/NGR/2/73	NGR73-02	639	534	0	83.57	16.43	AFRICA (G-V)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	521	0	81.53	18.47	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	519	0	81.22	18.78	EURO-SA	A12
9	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	513	0	80.28	19.72	EURO-SA	A24
10	A/Alem/ARG/81 (AJ306219)	ARG81--A	639	511	0	79.97	20.03	EURO-SA	A-81

nt, nucleotides

*, not a WRLFMD reference number

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Page 1 of 1

Serotype: A	Report date: 10/02/2010
WRLFMD Ref No: ERI/5/2008	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00002	Checked by: D.P. King
Sender Ref: 797/08	
Location: Mai Chuhot, Eritrea	Topotype: AFRICA (G-IV)
Date collected: 16/12/2008	Genotype/strain: Unnamed
Date received by WRLFMD: 20/01/2010	Sequence filename: ERI08-05.SEQ
Date received for sequencing: 04/02/2010	Date sequence last updated: 09/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1216
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 21 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/1/2008	ERI08-01	639	631	0	98.75	1.25	AFRICA (G-IV)	unnamed
2	A/ERI/4/2007	ERI07-04	639	631	0	98.75	1.25	AFRICA (G-IV)	unnamed
3	A/ERI/16/2009	ERI09-16	639	629	0	98.44	1.56	AFRICA (G-IV)	unnamed
4	A/ERI/1/2006	ERI06-01	639	628	0	98.28	1.72	AFRICA (G-IV)	unnamed
5	A/ERI/5/2006	ERI06-05	639	628	0	98.28	1.72	AFRICA (G-IV)	unnamed
6	A/SUD/1/2006 (GU566069)	SUD06-01	639	628	0	98.28	1.72	AFRICA (G-IV)	unnamed
7	A/SUD/3/2006 (GU566070)	SUD06-03	639	624	0	97.65	2.35	AFRICA (G-IV)	unnamed
8	A/ERI/40/2009	ERI09-40	639	619	0	96.87	3.13	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	578	0	90.45	9.55	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	578	0	90.45	9.55	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	546	0	85.45	14.55	AFRICA (G-IV)	unnamed
2	A/KEN/42/66 (K18/66)	KEN66-42	639	538	0	84.19	15.81	AFRICA (G-I)	unnamed
3	A/GHA/16/73	GHA73-16	636	534	0	83.96	16.04	AFRICA (G-VI)	unnamed
4	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	536	0	83.88	16.12	AFRICA (G-III)	unnamed
5	A/NGR/2/73	NGR73-02	639	534	0	83.57	16.43	AFRICA (G-V)	unnamed
6	A/UGA/13/66	UGA66-13	639	532	0	83.26	16.74	AFRICA (G-VII)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	523	0	81.85	18.15	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	519	0	81.22	18.78	EURO-SA	A12
9	A23/Kitale/KEN/64 (AY593766)	KEN64-AB	639	512	0	80.13	19.87	AFRICA (G-VIII)	unnamed
10	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	511	0	79.97	20.03	EURO-SA	A24

nt, nucleotides

*, not a WRLFMD reference number

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

Page 1 of 1

Serotype: A WRLFMD Ref No: ERI/16/2009 Batch No: WRLFMD/2010/00002 Sender Ref: 577/09-2 Location: Adi Shmagle, Eritrea Date collected: 09/10/2009 Date received by WRLFMD: 20/01/2010 Date received for sequencing: 04/02/2010 Species: Cattle Material used: BHK1 BTy2 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 10/02/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: AFRICA (G-IV) Genotype/strain: Unnamed Sequence filename: ERI09-16.SEQ Date sequence last updated: 09/02/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 1216 Min. no. of nt for comparison: 300 Total turn-around time: 21 days Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/5/2006	ERI06-05	639	638	0	99.84	0.16	AFRICA (G-IV)	unnamed
2	A/ERI/1/2008	ERI08-01	639	637	0	99.69	0.31	AFRICA (G-IV)	unnamed
3	A/ERI/4/2007	ERI07-04	639	637	0	99.69	0.31	AFRICA (G-IV)	unnamed
4	A/ERI/1/2006	ERI06-01	639	634	0	99.22	0.78	AFRICA (G-IV)	unnamed
5	A/SUD/1/2006 (GU566069)	SUD06-01	639	634	0	99.22	0.78	AFRICA (G-IV)	unnamed
6	A/ERI/5/2008	ERI08-05	639	629	0	98.44	1.56	AFRICA (G-IV)	unnamed
7	A/SUD/3/2006 (GU566070)	SUD06-03	639	624	0	97.65	2.35	AFRICA (G-IV)	unnamed
8	A/ERI/40/2009	ERI09-40	639	623	0	97.50	2.50	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	576	0	90.14	9.86	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	576	0	90.14	9.86	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	548	0	85.76	14.24	AFRICA (G-IV)	unnamed
2	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	538	0	84.19	15.81	AFRICA (G-III)	unnamed
3	A/GHA/16/73	GHA73-16	636	535	0	84.12	15.88	AFRICA (G-VI)	unnamed
4	A/KEN/42/66 (K18/66)	KEN66-42	639	537	0	84.04	15.96	AFRICA (G-I)	unnamed
5	A/UGA/13/66	UGA66-13	639	536	0	83.88	16.12	AFRICA (G-VII)	unnamed
6	A/NGR/2/73	NGR73-02	639	534	0	83.57	16.43	AFRICA (G-V)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	521	0	81.53	18.47	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	517	0	80.91	19.09	EURO-SA	A12
9	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	511	0	79.97	20.03	EURO-SA	A24
10	A/Alem/ARG/81 (AJ306219)	ARG81--A	639	510	0	79.81	20.19	EURO-SA	A-81

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: A	Report date: 10/02/2010
WRLFMD Ref No: ERI/40/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00002	Checked by: D.P. King
Sender Ref: 580/09	
Location: Mai-Aha, Eritrea	Topotype: AFRICA (G-IV)
Date collected: 19/10/2009	Genotype/strain: Unnamed
Date received by WRLFMD: 20/01/2010	Sequence filename: ERI09-40.SEQ
Date received for sequencing: 04/02/2010	Date sequence last updated: 09/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1216
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 21 days
	Sequencing time: 6 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/ERI/1/2008	ERI08-01	639	625	0	97.81	2.19	AFRICA (G-IV)	unnamed
2	A/ERI/4/2007	ERI07-04	639	625	0	97.81	2.19	AFRICA (G-IV)	unnamed
3	A/SUD/1/2006 (GU566069)	SUD06-01	639	624	0	97.65	2.35	AFRICA (G-IV)	unnamed
4	A/ERI/16/2009	ERI09-16	639	623	0	97.50	2.50	AFRICA (G-IV)	unnamed
5	A/ERI/1/2006	ERI06-01	639	622	0	97.34	2.66	AFRICA (G-IV)	unnamed
6	A/ERI/5/2006	ERI06-05	639	622	0	97.34	2.66	AFRICA (G-IV)	unnamed
7	A/ERI/5/2008	ERI08-05	639	619	0	96.87	3.13	AFRICA (G-IV)	unnamed
8	A/SUD/3/2006 (GU566070)	SUD06-03	639	616	0	96.40	3.60	AFRICA (G-IV)	unnamed
9	A/CAR/12/2000	CAR00-12	639	574	0	89.83	10.17	AFRICA (G-IV)	unnamed
10	A/CAR/13/2000	CAR00-13	639	574	0	89.83	10.17	AFRICA (G-IV)	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	A/SUD/3/77 (GU566064)	SUD77-03	639	542	0	84.82	15.18	AFRICA (G-IV)	unnamed
2	A/GHA/16/73	GHA73-16	636	534	0	83.96	16.04	AFRICA (G-VI)	unnamed
3	A/KEN/42/66 (K18/66)	KEN66-42	639	535	0	83.72	16.28	AFRICA (G-I)	unnamed
4	A/NGR/2/73	NGR73-02	639	535	0	83.72	16.28	AFRICA (G-V)	unnamed
5	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	534	0	83.57	16.43	AFRICA (G-III)	unnamed
6	A/UGA/13/66	UGA66-13	639	532	0	83.26	16.74	AFRICA (G-VII)	unnamed
7	A/EGY/1/72 (EF208756)	EGY72-01	639	519	0	81.22	18.78	AFRICA (G-II)	unnamed
8	A12/UK/119/32 (M10975)	UKG32119	639	517	0	80.91	19.09	EURO-SA	A12
9	A24/Cruzeiro/BRA/55 (AY593768)	BRA55--H	639	512	0	80.13	19.87	EURO-SA	A24
10	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	509	0	79.66	20.34	ASIA	A15

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v2.9

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Report on FMDV A in Eritrea in 2006-2009

Batch: WRLFMD/2010/00002

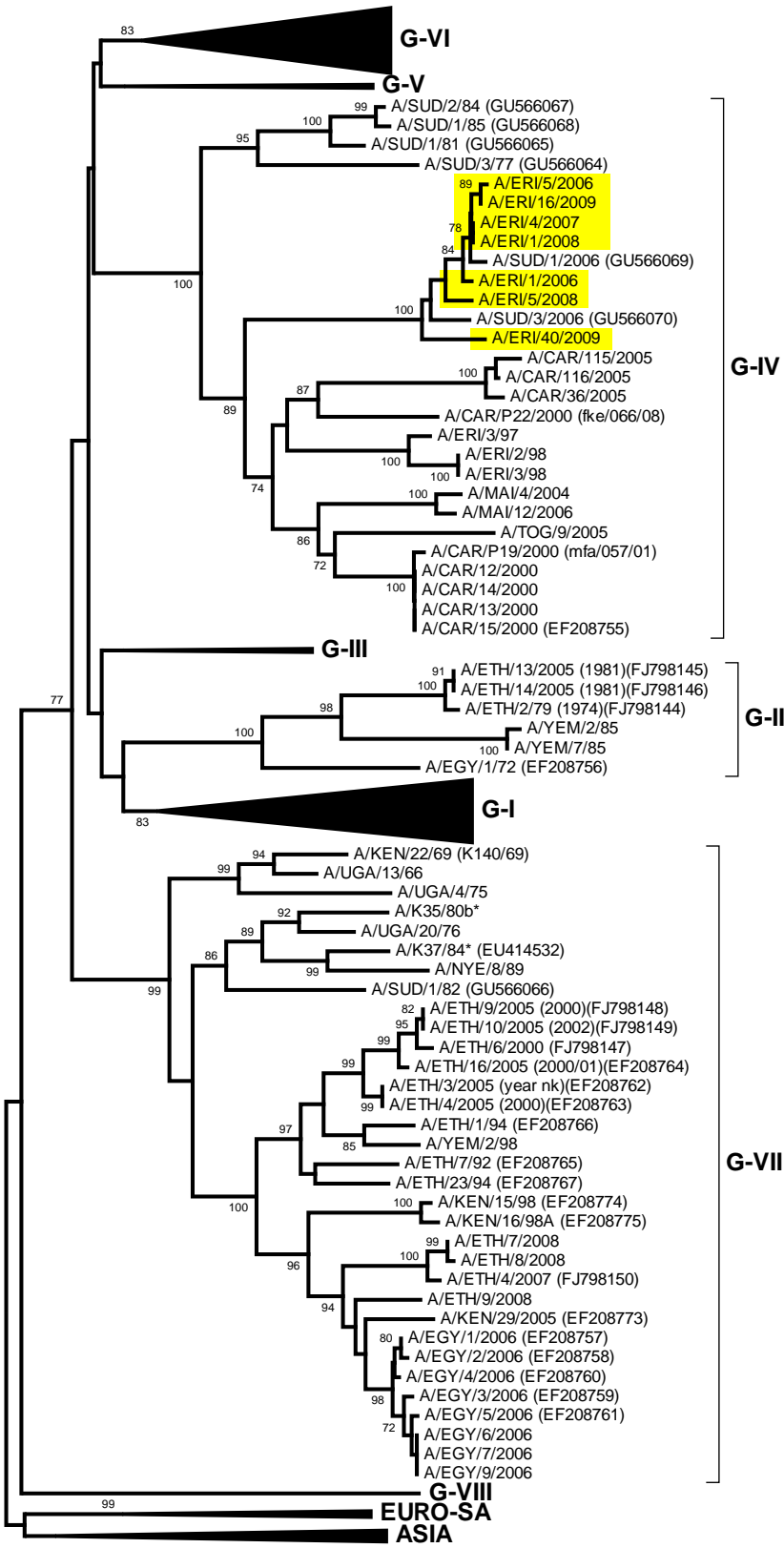
Software: MEGA 4.0
 No. of Taxa : 131
 Data File : n:\evd\meg\db\fmdv\A\ERI2009a.meg
 Data Title : A Eritrea 2006-2009
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference :

=====
 ->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 : 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, 10 February 2010

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AFRICA

G-IV

G-II

G-VII

0.02