

Serotype: O	Report date: 06/01/2005
WRL Ref No: ERI/1/2004	
Date collected: not known	
Date received: 15/12/2004	
Species: Bovine	Topotype: East Africa 3 (EA-3)
Material used: BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ERI04-01.SEQ
RT-PCR primers: O-1C272F/NK61	Date sequence last updated: 22/12/2004
No. of Nt determined: 639	Total no. of comparisons: 1562
No. of ambiguities: 0	Min. no. of nt for comparison: 300
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ERI/2/2004	ERI04-02	639	639	0	100	0
2	O/ERI/21/2004	ERI04-21	639	639	0	100	0
3	O/ERI/22/2004	ERI04-22	639	639	0	100	0
4	O/ERI/3/2004	ERI04-03	639	624	0	97.65	2.35
5	O/SUD/1/99	SUD99-01	639	590	0	92.33	7.67
6	O/SUD/12/2004	SUD04-12	639	586	0	91.71	8.29
7	O/SUD/14/2004	SUD04-14	639	584	0	91.39	8.61
8	O/SUD/4/2004	SUD04-04	639	584	0	91.39	8.61
9	O/SUD/15/2004	SUD04-15	639	584	0	91.39	8.61
10	O/SUD/3/2004	SUD04-03	639	583	0	91.24	8.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	550	0	86.07	13.93
2	O/TAW/2/99	TAW99-02	639	545	0	85.29	14.71
3	O/TAI/189/87*	TAI87-AC	639	542	0	84.82	15.18
4	O1/Manisa/TUR/69	TUR69--E	639	540	0	84.51	15.49
5	O/IND/R2/75*	IND75--A	639	538	0	84.19	15.81
6	O/ISR/2/88	ISR88-02	639	533	0	83.41	16.59
7	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
8	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97
9	O/PHI/5/95	PHI95-05	639	500	0	78.25	21.75
10	O/HKN/6/83	HKN83-06	637	497	2	78.02	21.98

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 06/01/2005
WRL Ref No: ERI/2/2004	
Date collected: not known	
Date received: 15/12/2004	
Species: Bovine	Topotype: East Africa 3 (EA-3)
Material used: BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ERI04-02.SEQ
RT-PCR primers: O-1C272F/NK61	Date sequence last updated: 24/12/2004
No. of Nt determined: 639	Total no. of comparisons: 1562
No. of ambiguities: 0	Min. no. of nt for comparison: 300
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ERI/1/2004	ERI04-01	639	639	0	100	0
2	O/ERI/21/2004	ERI04-21	639	639	0	100	0
3	O/ERI/22/2004	ERI04-22	639	639	0	100	0
4	O/ERI/3/2004	ERI04-03	639	624	0	97.65	2.35
5	O/SUD/1/99	SUD99-01	639	590	0	92.33	7.67
6	O/SUD/12/2004	SUD04-12	639	586	0	91.71	8.29
7	O/SUD/14/2004	SUD04-14	639	584	0	91.39	8.61
8	O/SUD/4/2004	SUD04-04	639	584	0	91.39	8.61
9	O/SUD/15/2004	SUD04-15	639	584	0	91.39	8.61
10	O/SUD/3/2004	SUD04-03	639	583	0	91.24	8.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	550	0	86.07	13.93
2	O/TAW/2/99	TAW99-02	639	545	0	85.29	14.71
3	O/TAI/189/87*	TAI87-AC	639	542	0	84.82	15.18
4	O1/Manisa/TUR/69	TUR69--E	639	540	0	84.51	15.49
5	O/IND/R2/75*	IND75--A	639	538	0	84.19	15.81
6	O/ISR/2/88	ISR88-02	639	533	0	83.41	16.59
7	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
8	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97
9	O/PHI/5/95	PHI95-05	639	500	0	78.25	21.75
10	O/HKN/6/83	HKN83-06	637	497	2	78.02	21.98

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 06/01/2005
WRL Ref No: ERI/3/2004	
Date collected: not known	
Date received: 15/12/2004	
Species: Bovine	Topotype: East Africa 3 (EA-3)
Material used: BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ERI04-03.SEQ
RT-PCR primers: O-1C272F/NK61	Date sequence last updated: 25/12/2004
No. of Nt determined: 639	Total no. of comparisons: 1562
No. of ambiguities: 0	Min. no. of nt for comparison: 300
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ERI/1/2004	ERI04-01	639	624	0	97.65	2.35
2	O/ERI/2/2004	ERI04-02	639	624	0	97.65	2.35
3	O/ERI/21/2004	ERI04-21	639	624	0	97.65	2.35
4	O/ERI/22/2004	ERI04-22	639	624	0	97.65	2.35
5	O/SUD/1/99	SUD99-01	639	587	0	91.86	8.14
6	O/SUD/12/2004	SUD04-12	639	583	0	91.24	8.76
7	O/SUD/14/2004	SUD04-14	639	581	0	90.92	9.08
8	O/SUD/4/2004	SUD04-04	639	581	0	90.92	9.08
9	O/SUD/15/2004	SUD04-15	639	581	0	90.92	9.08
10	O/SUD/3/2004	SUD04-03	639	580	0	90.77	9.23

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	553	0	86.54	13.46
2	O/TAW/2/99	TAW99-02	639	546	0	85.45	14.55
3	O1/Manisa/TUR/69	TUR69--E	639	543	0	84.98	15.02
4	O/TAI/189/87*	TAI87-AC	639	541	0	84.66	15.34
5	O/IND/R2/75*	IND75--A	639	539	0	84.35	15.65
6	O/ISR/2/88	ISR88-02	639	538	0	84.19	15.81
7	O/MOR/1/91	MOR91-01	639	534	0	83.57	16.43
8	O1/BFS 1860/UK/67	UKG67--A	639	509	0	79.66	20.34
9	O/PHI/5/95	PHI95-05	639	504	0	78.87	21.13
10	O/HKN/6/83	HKN83-06	637	499	2	78.34	21.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 06/01/2005
WRL Ref No: ERI/21/2004	
Date collected: not known	
Date received: 15/12/2004	
Species: Bovine	Topotype: East Africa 3 (EA-3)
Material used: BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ERI04-21.SEQ
RT-PCR primers: O-1C283F/NK61	Date sequence last updated: 06/01/2005
No. of Nt determined: 639	Total no. of comparisons: 1562
No. of ambiguities: 0	Min. no. of nt for comparison: 300
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ERI/1/2004	ERI04-01	639	639	0	100	0
2	O/ERI/2/2004	ERI04-02	639	639	0	100	0
3	O/ERI/22/2004	ERI04-22	639	639	0	100	0
4	O/ERI/3/2004	ERI04-03	639	624	0	97.65	2.35
5	O/SUD/1/99	SUD99-01	639	590	0	92.33	7.67
6	O/SUD/12/2004	SUD04-12	639	586	0	91.71	8.29
7	O/SUD/14/2004	SUD04-14	639	584	0	91.39	8.61
8	O/SUD/4/2004	SUD04-04	639	584	0	91.39	8.61
9	O/SUD/15/2004	SUD04-15	639	584	0	91.39	8.61
10	O/SUD/3/2004	SUD04-03	639	583	0	91.24	8.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	550	0	86.07	13.93
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4	O1/Manisa/TUR/69	TUR69--E	639	540	0	84.51	15.49
5	O/IND/R2/75*	IND75--A	639	538	0	84.19	15.81
6	O/ISR/2/88	ISR88-02	639	533	0	83.41	16.59
7	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
8	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97
9	O/PHI/5/95	PHI95-05	639	500	0	78.25	21.75
10	O/HKN/6/83	HKN83-06	637	497	2	78.02	21.98

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 06/01/2005
WRL Ref No: ERI/22/2004	
Date collected: not known	
Date received: 15/12/2004	
Species: Bovine	Topotype: East Africa 3 (EA-3)
Material used: BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ERI04-22.SEQ
RT-PCR primers: O-1C283F/NK61; O-1C272F/NK61	Date sequence last updated: 06/01/2005
No. of Nt determined: 639	Total no. of comparisons: 1562
No. of ambiguities: 0	Min. no. of nt for comparison: 300
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

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1	O/ERI/1/2004	ERI04-01	639	639	0	100	0
2	O/ERI/2/2004	ERI04-02	639	639	0	100	0
3	O/ERI/21/2004	ERI04-21	639	639	0	100	0
4	O/ERI/3/2004	ERI04-03	639	624	0	97.65	2.35
5	O/SUD/1/99	SUD99-01	639	590	0	92.33	7.67
6	O/SUD/12/2004	SUD04-12	639	586	0	91.71	8.29
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9	O/SUD/15/2004	SUD04-15	639	584	0	91.39	8.61
10	O/SUD/3/2004	SUD04-03	639	583	0	91.24	8.76

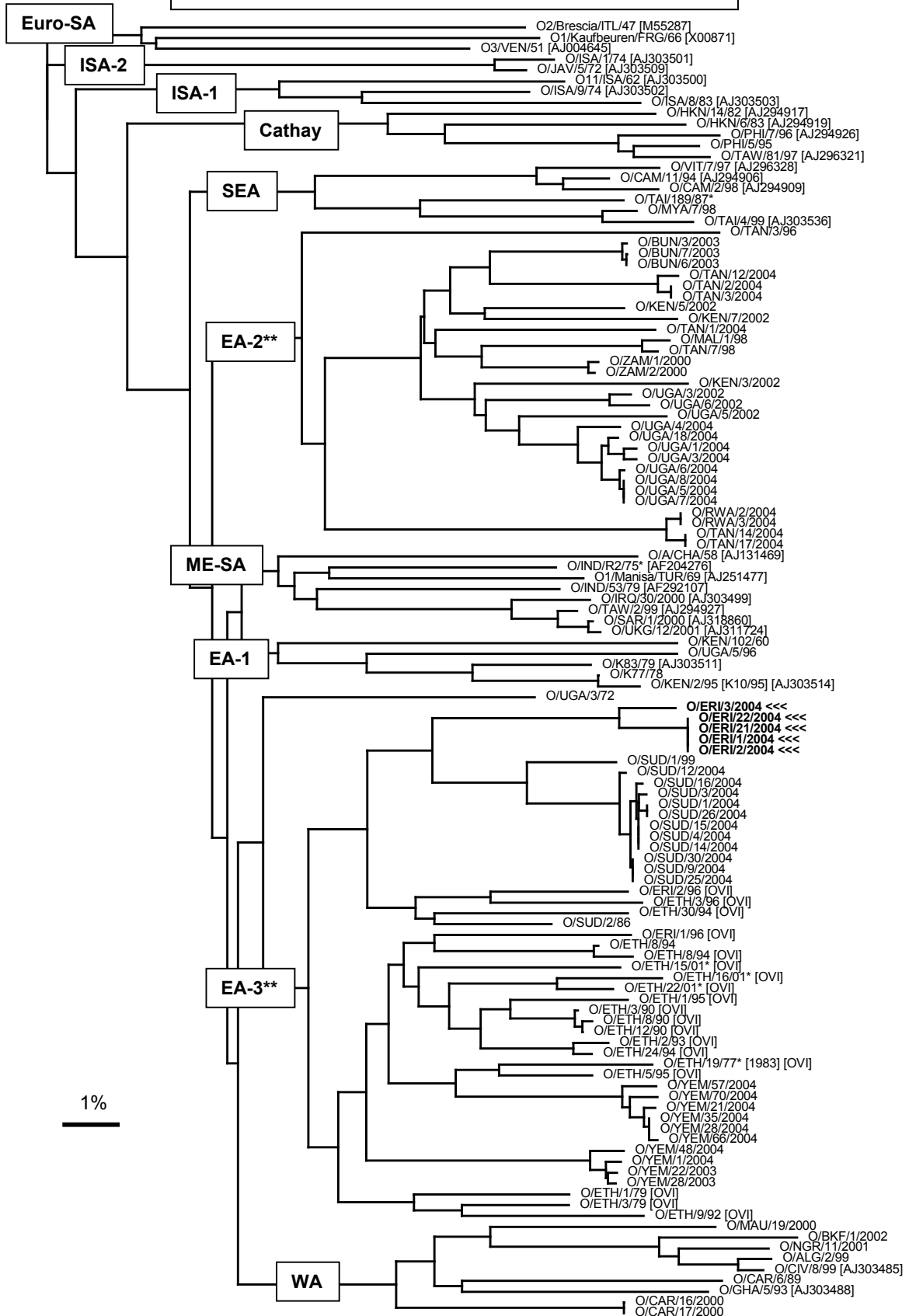
Relationships to Reference Virus Strains

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2	O/TAW/2/99	TAW99-02	639	545	0	85.29	14.71
3	O/TAI/189/87*	TAI87-AC	639	542	0	84.82	15.18
4	O1/Manisa/TUR/69	TUR69--E	639	540	0	84.51	15.49
5	O/IND/R2/75*	IND75--A	639	538	0	84.19	15.81
6	O/ISR/2/88	ISR88-02	639	533	0	83.41	16.59
7	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
8	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97
9	O/PHI/5/95	PHI95-05	639	500	0	78.25	21.75
10	O/HKN/6/83	HKN83-06	637	497	2	78.02	21.98

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Eritrea in 2004



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene (~639 nt). The tree was outgroup-rooted using the Euro-SA toptotype sequences. Sequences from the Onderstepoort Veterinary Institute (OVI), South Africa were shorter (495 nt).

* Not a WRLFMD Ref. No.
 ** proposed new toptypes

N.J. Knowles, P.R. Davies, R. J. Midgley & J.-F. Valarcher, 6 January 2005