

Serotype: O	Report date: 09/10/2005
WRL Ref No: TOG/1/2004	
Sender Ref: A 379/05/VIRO 255 6	
Date collected: 15/10/2004	
Date received by WRLFMD: 17/08/2005	Topotype: West Africa (WA)
Date received for sequencing: 23/08/2005	Genotype/strain: none designated
Species: Cattle	Sequence filename: TOG04-01.SEQ
Material used: BTy2	Date sequence last updated: 09/10/2005
Region sequenced: VP1	Total no. of comparisons: 1733
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 53 days
No. of ambiguities: 0	Sequencing time: 47 days
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/TOG/1/2005	TOG05-01	639	630	0	98.59	1.41
2	O/TOG/3/2005	TOG05-03	639	630	0	98.59	1.41
3	O/TOG/4/2005	TOG05-04	639	630	0	98.59	1.41
4	O/CIV/8/99	CIV99-08	639	607	0	94.99	5.01
5	O/GNA/4/99	GNA99-04	638	605	1	94.83	5.17
6	O/MOR/2/99	MOR99-02	333	315	3	94.59	5.41
7	O/ALG/2/99	ALG99-02	639	604	0	94.52	5.48
8	O/GNA/10/99	GNA99-10	443	416	13	93.91	6.09
9	O/ALG/1/99	ALG99-01	630	591	9	93.81	6.19
10	O/NGR/11/2001	NGR01-11	639	599	0	93.74	6.26

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/R2/75* [AF204276]	IND75--A	639	537	0	84.04	15.96
2	O/IND/53/79 [AF292107]	IND79A53	639	536	0	83.88	16.12
3	O/MOR/1/91	MOR91-01	639	532	0	83.26	16.74
4	O/ISR/2/88	ISR88-02	639	532	0	83.26	16.74
5	O1/Manisa/TUR/69	TUR69--E	639	532	0	83.26	16.74
6	O/TAW/2/99	TAW99-02	639	532	0	83.26	16.74
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	526	0	82.32	17.68
8	O1/BFS 1860/UK/67	UKG67--A	639	515	0	80.59	19.41
9	O/HKN/6/83	HKN83-06	637	506	2	79.43	20.57
10	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: TOG/1/2005
Sender Ref: A 373/05/VIRO 255 01
Date collected: 17/06/2005
Date received by WRLFMD: 17/08/2005
Date received for sequencing: 23/08/2005
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/10/2005
Topotype: West Africa (WA)
Genotype/strain: none designated
Sequence filename: TOG05-01.SEQ
Date sequence last updated: 09/10/2005
Total no. of comparisons: 1733
Min. no. of nt for comparison: 300
Total turn-around time: 53 days
Sequencing time: 47 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TOG/3/2005	TOG05-03	639	639	0	100	0
2	O/TOG/4/2005	TOG05-04	639	639	0	100	0
3	O/TOG/1/2004	TOG04-01	639	630	0	98.59	1.41
4	O/CIV/8/99	CIV99-08	639	604	0	94.52	5.48
5	O/GNA/4/99	GNA99-04	638	602	1	94.36	5.64
6	O/MOR/2/99	MOR99-02	333	314	3	94.29	5.71
7	O/ALG/2/99	ALG99-02	639	601	0	94.05	5.95
8	O/GNA/10/99	GNA99-10	443	414	13	93.45	6.55
9	O/ALG/1/99	ALG99-01	630	588	9	93.33	6.67
10	O/GNA/6/99	GNA99-06	328	306	7	93.29	6.71

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 [AF292107]	IND79A53	639	536	0	83.88	16.12
2	O/IND/R2/75* [AF204276]	IND75--A	639	533	0	83.41	16.59
3	O/TAW/2/99	TAW99-02	639	533	0	83.41	16.59
4	O/ISR/2/88	ISR88-02	639	531	0	83.1	16.9
5	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
6	O1/Manisa/TUR/69	TUR69--E	639	530	0	82.94	17.06
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	527	0	82.47	17.53
8	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72
9	O/HKN/6/83	HKN83-06	637	506	2	79.43	20.57
10	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/10/2005
WRL Ref No: TOG/3/2005	
Sender Ref: A 373/05/VIRO 255 04	
Date collected: 17/06/2005	
Date received by WRLFMD: 17/08/2005	Topotype: West Africa (WA)
Date received for sequencing: 23/08/2005	Genotype/strain: none designated
Species: Cattle	Sequence filename: TOG05-03.SEQ
Material used: BTy1	Date sequence last updated: 09/10/2005
Region sequenced: VP1	Total no. of comparisons: 1733
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 53 days
No. of ambiguities: 0	Sequencing time: 47 days
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/TOG/1/2005	TOG05-01	639	639	0	100	0
2	O/TOG/4/2005	TOG05-04	639	639	0	100	0
3	O/TOG/1/2004	TOG04-01	639	630	0	98.59	1.41
4	O/CIV/8/99	CIV99-08	639	604	0	94.52	5.48
5	O/GNA/4/99	GNA99-04	638	602	1	94.36	5.64
6	O/MOR/2/99	MOR99-02	333	314	3	94.29	5.71
7	O/ALG/2/99	ALG99-02	639	601	0	94.05	5.95
8	O/GNA/10/99	GNA99-10	443	414	13	93.45	6.55
9	O/ALG/1/99	ALG99-01	630	588	9	93.33	6.67
10	O/GNA/6/99	GNA99-06	328	306	7	93.29	6.71

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 [AF292107]	IND79A53	639	536	0	83.88	16.12
2	O/IND/R2/75* [AF204276]	IND75--A	639	533	0	83.41	16.59
3	O/TAW/2/99	TAW99-02	639	533	0	83.41	16.59
4	O/ISR/2/88	ISR88-02	639	531	0	83.1	16.9
5	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
6	O1/Manisa/TUR/69	TUR69--E	639	530	0	82.94	17.06
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	527	0	82.47	17.53
8	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72
9	O/HKN/6/83	HKN83-06	637	506	2	79.43	20.57
10	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: TOG/4/2005
Sender Ref: A373/05/VIRO 255
Date collected: 2005
Date received by WRLFMD: 17/08/2005
Date received for sequencing: 23/08/2005
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/10/2005
Topotype: West Africa (WA)
Genotype/strain: none designated
Sequence filename: TOG05-04.SEQ
Date sequence last updated: 09/10/2005
Total no. of comparisons: 1733
Min. no. of nt for comparison: 300
Total turn-around time: 53 days
Sequencing time: 47 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TOG/1/2005	TOG05-01	639	639	0	100	0
2	O/TOG/3/2005	TOG05-03	639	639	0	100	0
3	O/TOG/1/2004	TOG04-01	639	630	0	98.59	1.41
4	O/CIV/8/99	CIV99-08	639	604	0	94.52	5.48
5	O/GNA/4/99	GNA99-04	638	602	1	94.36	5.64
6	O/MOR/2/99	MOR99-02	333	314	3	94.29	5.71
7	O/ALG/2/99	ALG99-02	639	601	0	94.05	5.95
8	O/GNA/10/99	GNA99-10	443	414	13	93.45	6.55
9	O/ALG/1/99	ALG99-01	630	588	9	93.33	6.67
10	O/GNA/6/99	GNA99-06	328	306	7	93.29	6.71

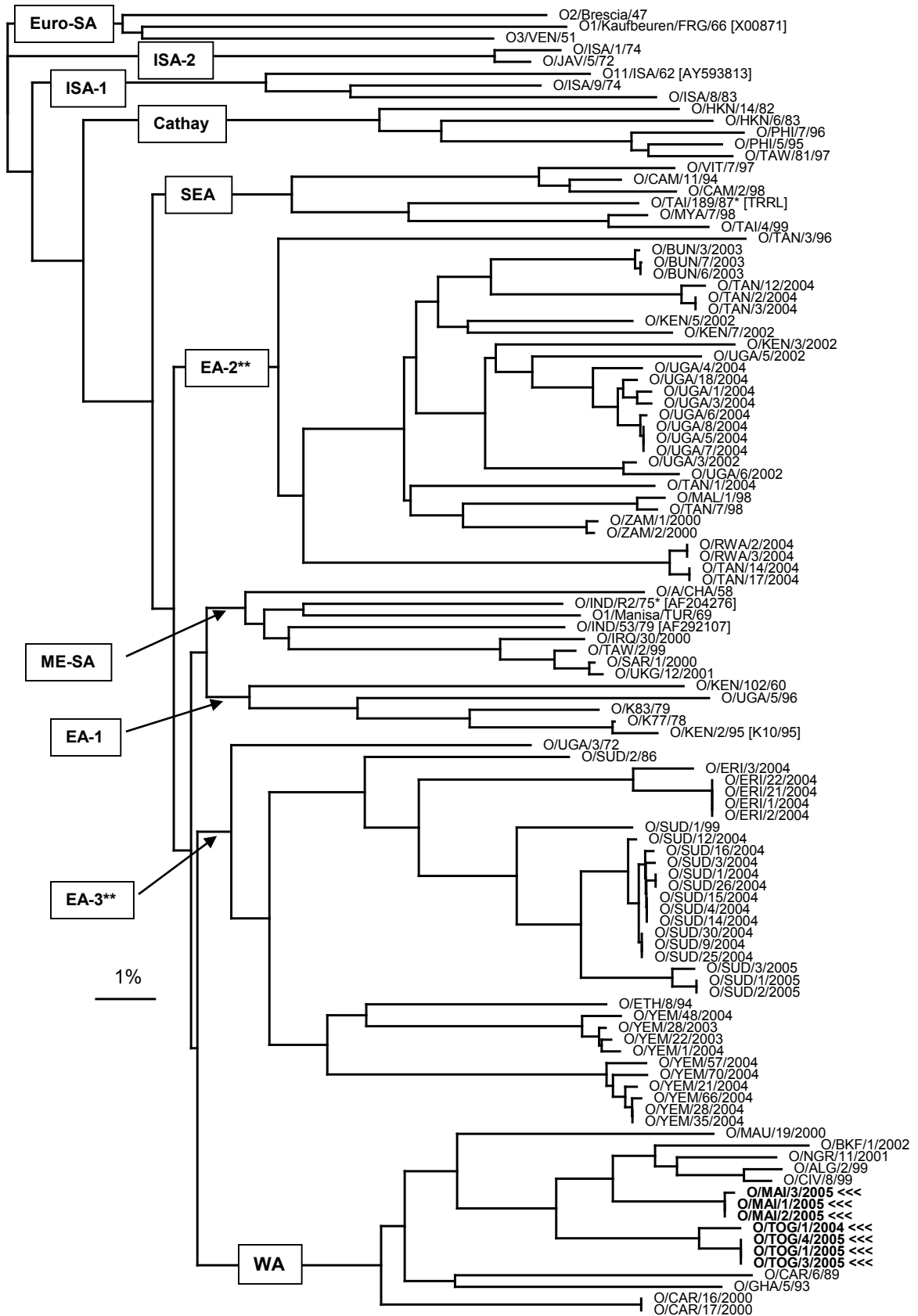
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	536	0	83.88	16.12
2	O/IND/R2/75* [AF204276]	IND75--A	639	533	0	83.41	16.59
3	O/TAW/2/99	TAW99-02	639	533	0	83.41	16.59
4	O/ISR/2/88	ISR88-02	639	531	0	83.1	16.9
5	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
6	O1/Manisa/TUR/69	TUR69--E	639	530	0	82.94	17.06
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	527	0	82.47	17.53
8	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72
9	O/HKN/6/83	HKN83-06	637	506	2	79.43	20.57
10	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from West Africa in 2004-2005



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.

* Not a WRLFMD Ref. No.

** proposed new toptypes