

Serotype: O Report date: 09/10/2005
WRL Ref No: MAI/1/2005
Sender Ref: A189/05/VIRO 120 Troupeau de Gao-Boulgoundje no. 1
Date collected: 08/03/2005 Topotype: West Africa (WA)
Date received by WRLFMD: 17/08/2005 Genotype/strain: none designated
Date received for sequencing: 02/09/2005 Sequence filename: MAI05-01.SEQ
Species: Cattle Date sequence last updated: 05/10/2005
Material used: BTy1 Total no. of comparisons: 1733
Region sequenced: VP1 Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R Total turn-around time: 53 days
No. of Nt determined: 639 Sequencing time: 37 days
No. of ambiguities: 0
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/MAI/2/2005	MAI05-02	639	639	0	100	0
2	O/MAI/3/2005	MAI05-03	639	638	0	99.84	0.16
3	O/CIV/8/99	CIV99-08	639	611	0	95.62	4.38
4	O/BKF/1/2002	BKF02-01	639	609	0	95.31	4.69
5	O/GNA/4/99	GNA99-04	638	608	1	95.3	4.7
6	O/ALG/2/99	ALG99-02	639	606	0	94.84	5.16
7	O/GNA/10/99	GNA99-10	443	420	13	94.81	5.19
8	O/MOR/2/99	MOR99-02	333	315	3	94.59	5.41
9	O/NGR/11/2001	NGR01-11	639	603	0	94.37	5.63
10	O/ALG/1/99	ALG99-01	630	592	9	93.97	6.03

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	544	0	85.13	14.87
2	O/IND/R2/75* [AF204276]	IND75--A	639	540	0	84.51	15.49
3	O1/Manisa/TUR/69	TUR69--E	639	537	0	84.04	15.96
4	O/TAW/2/99	TAW99-02	639	537	0	84.04	15.96
5	O/MOR/1/91	MOR91-01	639	531	0	83.1	16.9
6	O/ISR/2/88	ISR88-02	639	527	0	82.47	17.53
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	524	0	82	18
8	O1/BFS 1860/UK/67	UKG67--A	639	515	0	80.59	19.41
9	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
10	O/HKN/6/83	HKN83-06	637	505	2	79.28	20.72

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/10/2005
WRL Ref No: MAI/2/2005	
Sender Ref: A189/05/VIRO 120 Troupeau de Gao-Boulgoundje no. 2	Topotype: West Africa (WA)
Date collected: 08/03/2005	Genotype/strain: none designated
Date received by WRLFMD: 17/08/2005	Sequence filename: MAI05-02.SEQ
Date received for sequencing: 02/09/2005	Date sequence last updated: 05/10/2005
Species: Cattle	Total no. of comparisons: 1733
Material used: BTy1	Min. no. of nt for comparison: 300
Region sequenced: VP1	Total turn-around time: 53 days
RT-PCR primers: O-1C272F/EUR-2B52R	Sequencing time: 37 days
No. of Nt determined: 639	
No. of ambiguities: 0	
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/MAI/1/2005	MAI05-01	639	639	0	100	0
2	O/MAI/3/2005	MAI05-03	639	638	0	99.84	0.16
3	O/CIV/8/99	CIV99-08	639	611	0	95.62	4.38
4	O/BKF/1/2002	BKF02-01	639	609	0	95.31	4.69
5	O/GNA/4/99	GNA99-04	638	608	1	95.3	4.7
6	O/ALG/2/99	ALG99-02	639	606	0	94.84	5.16
7	O/GNA/10/99	GNA99-10	443	420	13	94.81	5.19
8	O/MOR/2/99	MOR99-02	333	315	3	94.59	5.41
9	O/NGR/11/2001	NGR01-11	639	603	0	94.37	5.63
10	O/ALG/1/99	ALG99-01	630	592	9	93.97	6.03

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	544	0	85.13	14.87
2	O/IND/R2/75* [AF204276]	IND75--A	639	540	0	84.51	15.49
3	O1/Manisa/TUR/69	TUR69--E	639	537	0	84.04	15.96
4	O/TAW/2/99	TAW99-02	639	537	0	84.04	15.96
5	O/MOR/1/91	MOR91-01	639	531	0	83.1	16.9
6	O/ISR/2/88	ISR88-02	639	527	0	82.47	17.53
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	524	0	82	18
8	O1/BFS 1860/UK/67	UKG67--A	639	515	0	80.59	19.41
9	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
10	O/HKN/6/83	HKN83-06	637	505	2	79.28	20.72

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/10/2005
WRL Ref No: MAI/3/2005	
Sender Ref: A189/05/VIRO 120 Troupeau de Gao-Boulgoundje no. 3	
Date collected: 08/03/2005	Topotype: West Africa (WA)
Date received by WRLFMD: 17/08/2005	Genotype/strain: none designated
Date received for sequencing: 02/09/2005	Sequence filename: MAI05-03.SEQ
Species: Cattle	Date sequence last updated: 05/10/2005
Material used: BTy1	Total no. of comparisons: 1733
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R	Total turn-around time: 53 days
No. of Nt determined: 639	Sequencing time: 37 days
No. of ambiguities: 0	
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/MAI/1/2005	MAI05-01	639	638	0	99.84	0.16
2	O/MAI/2/2005	MAI05-02	639	638	0	99.84	0.16
3	O/CIV/8/99	CIV99-08	639	610	0	95.46	4.54
4	O/BKF/1/2002	BKF02-01	639	608	0	95.15	4.85
5	O/GNA/4/99	GNA99-04	638	607	1	95.14	4.86
6	O/GNA/10/99	GNA99-10	443	420	13	94.81	5.19
7	O/ALG/2/99	ALG99-02	639	605	0	94.68	5.32
8	O/MOR/2/99	MOR99-02	333	315	3	94.59	5.41
9	O/NGR/11/2001	NGR01-11	639	602	0	94.21	5.79
10	O/ALG/1/99	ALG99-01	630	591	9	93.81	6.19

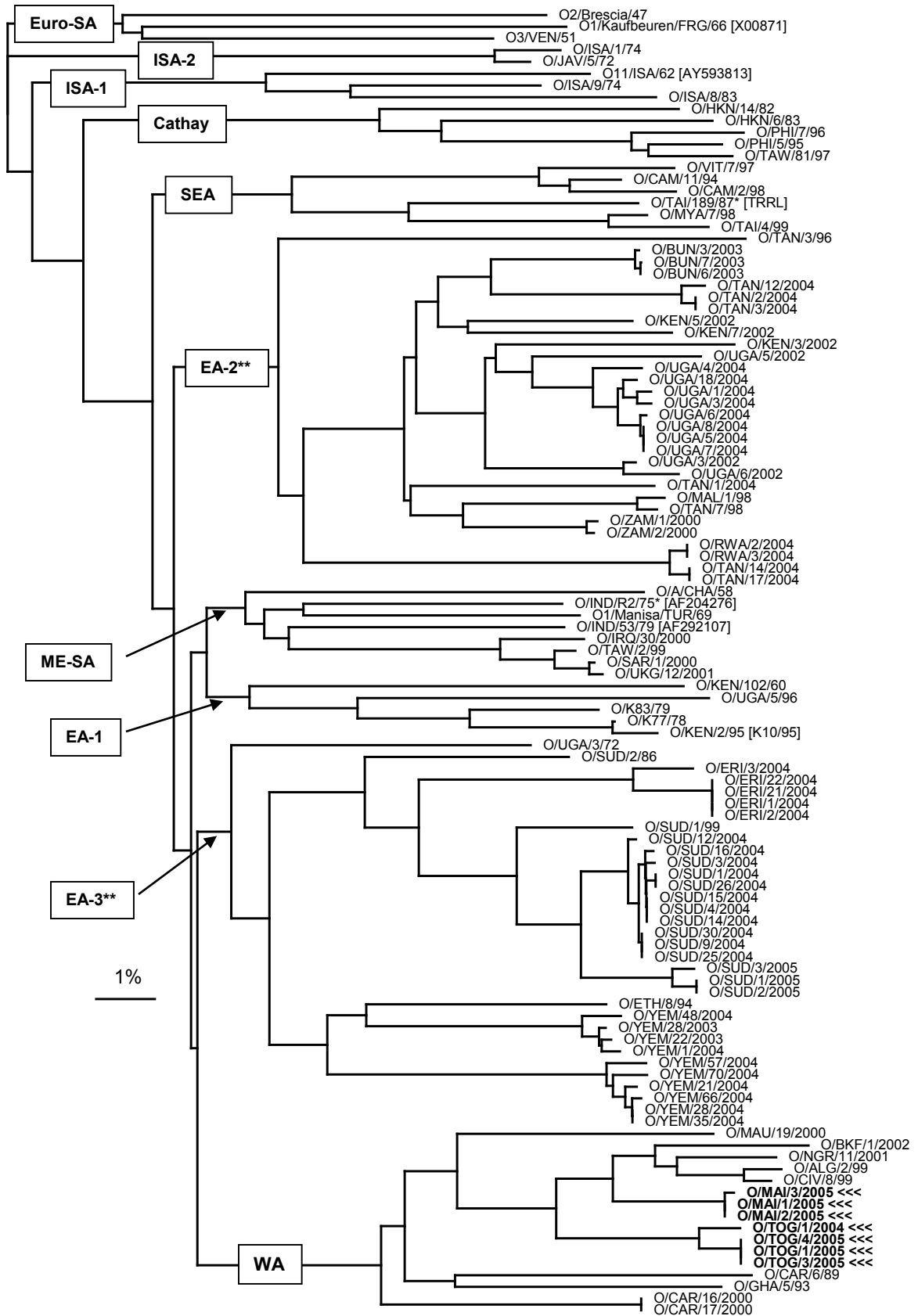
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	543	0	84.98	15.02
2	O/IND/R2/75* [AF204276]	IND75--A	639	539	0	84.35	15.65
3	O1/Manisa/TUR/69	TUR69--E	639	536	0	83.88	16.12
4	O/TAW/2/99	TAW99-02	639	536	0	83.88	16.12
5	O/MOR/1/91	MOR91-01	639	530	0	82.94	17.06
6	O/ISR/2/88	ISR88-02	639	526	0	82.32	17.68
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	523	0	81.85	18.15
8	O1/BFS 1860/UK/67	UKG67--A	639	514	0	80.44	19.56
9	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
10	O/HKN/6/83	HKN83-06	637	504	2	79.12	20.88

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