

Serotype: O
WRL Ref No: SUD/1/2004
Date collected: 04-05/09/2004
Date received: 19/09/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 04/11/2004
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: SUD04-01.SEQ
Date sequence last updated: 05/10/2004
Total no. of comparisons: 1517
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	442	0	89.29	10.71
4	O/ETH/30/94 (OVI)	ETH94A30	495	442	0	89.29	10.71
5	O/ERI/2/96 (OVI)	ERI96A02	495	440	0	88.89	11.11
6	O/ETH/3/79 (OVI)	ETH79A03	495	436	0	88.08	11.92
7	O/ETH/24/94 (OVI)	ETH94A24	495	436	0	88.08	11.92
8	O/ETH/1/79 (OVI)	ETH79A01	495	436	0	88.08	11.92
9	O/ETH/3/90 (OVI)	ETH90A03	495	435	0	87.88	12.12
10	O/YEM/4/95	YEM95-04	342	300	3	87.72	12.28

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	552	0	86.38	13.62
2	O/TAW/2/99	TAW99-02	639	550	0	86.07	13.93
3	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
4	O/IND/R2/75*	IND75--A	639	545	0	85.29	14.71
5	O/ISR/2/88	ISR88-02	639	542	0	84.82	15.18
6	O/TAI/189/87*	TAI87-AC	639	538	0	84.19	15.81
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	511	0	79.97	20.03
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	503	0	78.72	21.28

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: SUD/3/2004
Date collected: 04-05/09/2004
Date received: 19/09/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 04/11/2004
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: SUD04-03.SEQ
Date sequence last updated: 05/10/2004
Total no. of comparisons: 1517
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	442	0	89.29	10.71
4	O/ETH/30/94 (OVI)	ETH94A30	495	442	0	89.29	10.71
5	O/ERI/2/96 (OVI)	ERI96A02	495	440	0	88.89	11.11
6	O/ETH/3/79 (OVI)	ETH79A03	495	436	0	88.08	11.92
7	O/ETH/24/94 (OVI)	ETH94A24	495	436	0	88.08	11.92
8	O/ETH/1/79 (OVI)	ETH79A01	495	436	0	88.08	11.92
9	O/YEM/28/2003	YEM03-28	639	562	0	87.95	12.05
10	O/ETH/3/90 (OVI)	ETH90A03	495	435	0	87.88	12.12

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	552	0	86.38	13.62
2	O/TAW/2/99	TAW99-02	639	550	0	86.07	13.93
3	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
4	O/IND/R2/75*	IND75--A	639	545	0	85.29	14.71
5	O/ISR/2/88	ISR88-02	639	542	0	84.82	15.18
6	O/TAI/189/87*	TAI87-AC	639	538	0	84.19	15.81
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	513	0	80.28	19.72
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	503	0	78.72	21.28

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: SUD/4/2004
Date collected: 04-05/09/2004
Date received: 19/09/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 04/11/2004
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: SUD04-04.SEQ
Date sequence last updated: 03/11/2004
Total no. of comparisons: 1517
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	616	0	96.4	3.6
2	O/SUD/2/86	SUD86-02	639	589	0	92.18	7.82
3	O/ETH/3/96 (OVI)	ETH96A03	495	443	0	89.49	10.51
4	O/ETH/30/94 (OVI)	ETH94A30	495	443	0	89.49	10.51
5	O/ERI/2/96 (OVI)	ERI96A02	495	441	0	89.09	10.91
6	O/ETH/3/79 (OVI)	ETH79A03	495	437	0	88.28	11.72
7	O/ETH/24/94 (OVI)	ETH94A24	495	437	0	88.28	11.72
8	O/ETH/1/79 (OVI)	ETH79A01	495	437	0	88.28	11.72
9	O/ETH/3/90 (OVI)	ETH90A03	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	435	0	87.88	12.12

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	551	0	86.23	13.77
3	O1/Manisa/TUR/69	TUR69--E	639	547	0	85.6	14.4
4	O/IND/R2/75*	IND75--A	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	543	0	84.98	15.02
6	O/TAI/189/87*	TAI87-AC	639	539	0	84.35	15.65
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
9	O/HKN/6/83	HKN83-06	637	510	2	80.06	19.94
10	O1/BFS 1860/UK/67	UKG67--A	639	504	0	78.87	21.13

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: SUD/9/2004
Date collected: 04-05/09/2004
Date received: 19/09/2004
Species: Bovine
Material used: BTy2
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 04/11/2004
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: SUD04-09.SEQ
Date sequence last updated: 03/11/2004
Total no. of comparisons: 1517
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	444	0	89.7	10.3
4	O/ETH/30/94 (OVI)	ETH94A30	495	444	0	89.7	10.3
5	O/ERI/2/96 (OVI)	ERI96A02	495	442	0	89.29	10.71
6	O/ETH/3/79 (OVI)	ETH79A03	495	438	0	88.48	11.52
7	O/ETH/24/94 (OVI)	ETH94A24	495	438	0	88.48	11.52
8	O/ETH/3/90 (OVI)	ETH90A03	495	437	0	88.28	11.72
9	O/ETH/1/79 (OVI)	ETH79A01	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	436	0	88.08	11.92

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	554	0	86.7	13.3
2	O/TAW/2/99	TAW99-02	639	552	0	86.38	13.62
3	O/IND/R2/75*	IND75--A	639	547	0	85.6	14.4
4	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	544	0	85.13	14.87
6	O/TAI/189/87*	TAI87-AC	639	540	0	84.51	15.49
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	511	0	79.97	20.03
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
 WRL Ref No: SUD/12/2004
 Date collected: 04-05/09/2004
 Date received: 19/09/2004
 Species: Bovine
 Material used: BTy2
 Region sequenced: VP1
 RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
 No. of Nt determined: 639
 No. of ambiguities: 0
 Gene length: 639

Report date: 04/11/2004
 Topotype: EA-3
 Genotype/strain: none designated
 Sequence filename: SUD04-12.SEQ
 Date sequence last updated: 03/11/2004
 Total no. of comparisons: 1517
 Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	616	0	96.4	3.6
2	O/SUD/2/86	SUD86-02	639	591	0	92.49	7.51
3	O/ETH/3/96 (OVI)	ETH96A03	495	445	0	89.9	10.1
4	O/ETH/30/94 (OVI)	ETH94A30	495	445	0	89.9	10.1
5	O/ERI/2/96 (OVI)	ERI96A02	495	441	0	89.09	10.91
6	O/ETH/3/79 (OVI)	ETH79A03	495	439	0	88.69	11.31
7	O/ETH/24/94 (OVI)	ETH94A24	495	439	0	88.69	11.31
8	O/ETH/1/79 (OVI)	ETH79A01	495	439	0	88.69	11.31
9	O/ETH/3/90 (OVI)	ETH90A03	495	438	0	88.48	11.52
10	O/YEM/4/95	YEM95-04	342	302	3	88.3	11.7

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	555	0	86.85	13.15
2	O/TAW/2/99	TAW99-02	639	553	0	86.54	13.46
3	O1/Manisa/TUR/69	TUR69--E	639	549	0	85.92	14.08
4	O/IND/R2/75*	IND75--A	639	548	0	85.76	14.24
5	O/ISR/2/88	ISR88-02	639	544	0	85.13	14.87
6	O/TAI/189/87*	TAI87-AC	639	541	0	84.66	15.34
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	510	0	79.81	20.19
9	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25
10	O1/BFS 1860/UK/67	UKG67--A	639	506	0	79.19	20.81

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O

Report date: 04/11/2004

WRL Ref No: SUD/14/2004

Date collected: 04-05/09/2004

Date received: 19/09/2004

Species: Bovine

Topotype: EA-3

Material used: BTy1

Genotype/strain: none designated

Region sequenced: VP1

Sequence filename: SUD04-14.SEQ

RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61

Date sequence last updated: 03/11/2004

No. of Nt determined: 639

Total no. of comparisons: 1517

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/SUD/1/99	SUD99-01	639	616	0	96.4	3.6
2	O/SUD/2/86	SUD86-02	639	589	0	92.18	7.82
3	O/ETH/3/96 (OVI)	ETH96A03	495	443	0	89.49	10.51
4	O/ETH/30/94 (OVI)	ETH94A30	495	443	0	89.49	10.51
5	O/ERI/2/96 (OVI)	ERI96A02	495	441	0	89.09	10.91
6	O/ETH/3/79 (OVI)	ETH79A03	495	437	0	88.28	11.72
7	O/ETH/24/94 (OVI)	ETH94A24	495	437	0	88.28	11.72
8	O/ETH/1/79 (OVI)	ETH79A01	495	437	0	88.28	11.72
9	O/ETH/3/90 (OVI)	ETH90A03	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	435	0	87.88	12.12

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	551	0	86.23	13.77
3	O1/Manisa/TUR/69	TUR69--E	639	547	0	85.6	14.4
4	O/IND/R2/75*	IND75--A	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	543	0	84.98	15.02
6	O/TAI/189/87*	TAI87-AC	639	539	0	84.35	15.65
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
9	O/HKN/6/83	HKN83-06	637	510	2	80.06	19.94
10	O1/BFS 1860/UK/67	UKG67--A	639	504	0	78.87	21.13

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: SUD/15/2004
Date collected: 04-05/09/2004
Date received: 19/09/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 04/11/2004
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: SUD04-15.SEQ
Date sequence last updated: 03/11/2004
Total no. of comparisons: 1517
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	616	0	96.4	3.6
2	O/SUD/2/86	SUD86-02	639	589	0	92.18	7.82
3	O/ETH/3/96 (OVI)	ETH96A03	495	443	0	89.49	10.51
4	O/ETH/30/94 (OVI)	ETH94A30	495	443	0	89.49	10.51
5	O/ERI/2/96 (OVI)	ERI96A02	495	441	0	89.09	10.91
6	O/ETH/3/79 (OVI)	ETH79A03	495	437	0	88.28	11.72
7	O/ETH/24/94 (OVI)	ETH94A24	495	437	0	88.28	11.72
8	O/ETH/1/79 (OVI)	ETH79A01	495	437	0	88.28	11.72
9	O/ETH/3/90 (OVI)	ETH90A03	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	435	0	87.88	12.12

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	551	0	86.23	13.77
3	O1/Manisa/TUR/69	TUR69--E	639	547	0	85.6	14.4
4	O/IND/R2/75*	IND75--A	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	543	0	84.98	15.02
6	O/TAI/189/87*	TAI87-AC	639	539	0	84.35	15.65
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
9	O/HKN/6/83	HKN83-06	637	510	2	80.06	19.94
10	O1/BFS 1860/UK/67	UKG67--A	639	504	0	78.87	21.13

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O

Report date: 04/11/2004

WRL Ref No: SUD/16/2004

Date collected: 04-05/09/2004

Date received: 19/09/2004

Species: Bovine

Topotype: EA-3

Material used: BTy1

Genotype/strain: none designated

Region sequenced: VP1

Sequence filename: SUD04-16.SEQ

RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61

Date sequence last updated: 03/11/2004

No. of Nt determined: 639

Total no. of comparisons: 1517

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/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	443	0	89.49	10.51
4	O/ETH/30/94 (OVI)	ETH94A30	495	443	0	89.49	10.51
5	O/ERI/2/96 (OVI)	ERI96A02	495	441	0	89.09	10.91
6	O/ETH/3/79 (OVI)	ETH79A03	495	437	0	88.28	11.72
7	O/ETH/24/94 (OVI)	ETH94A24	495	437	0	88.28	11.72
8	O/ETH/1/79 (OVI)	ETH79A01	495	437	0	88.28	11.72
9	O/ETH/3/90 (OVI)	ETH90A03	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	435	0	87.88	12.12

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	552	0	86.38	13.62
2	O/TAW/2/99	TAW99-02	639	551	0	86.23	13.77
3	O/IND/R2/75*	IND75--A	639	546	0	85.45	14.55
4	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	543	0	84.98	15.02
6	O/TAI/189/87*	TAI87-AC	639	539	0	84.35	15.65
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	511	0	79.97	20.03
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	503	0	78.72	21.28

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 04/11/2004
WRL Ref No: SUD/25/2004	
Date collected: 07/09/2004	
Date received: 19/09/2004	Topotype: EA-3
Species: Bovine	Genotype/strain: none designated
Material used: BTy1	Sequence filename: SUD04-25.SEQ
Region sequenced: VP1	Date sequence last updated: 05/10/2004
RT-PCR primers: O-1C272F/NK61	Total no. of comparisons: 1517
No. of Nt determined: 639	Min. no. of nt for comparison: 300
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/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	444	0	89.7	10.3
4	O/ETH/30/94 (OVI)	ETH94A30	495	444	0	89.7	10.3
5	O/ERI/2/96 (OVI)	ERI96A02	495	442	0	89.29	10.71
6	O/ETH/3/79 (OVI)	ETH79A03	495	438	0	88.48	11.52
7	O/ETH/24/94 (OVI)	ETH94A24	495	438	0	88.48	11.52
8	O/ETH/3/90 (OVI)	ETH90A03	495	437	0	88.28	11.72
9	O/ETH/1/79 (OVI)	ETH79A01	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	436	0	88.08	11.92

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	554	0	86.7	13.3
2	O/TAW/2/99	TAW99-02	639	552	0	86.38	13.62
3	O/IND/R2/75*	IND75--A	639	547	0	85.6	14.4
4	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	544	0	85.13	14.87
6	O/TAI/189/87*	TAI87-AC	639	540	0	84.51	15.49
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	511	0	79.97	20.03
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O

Report date: 04/11/2004

WRL Ref No: SUD/26/2004

Date collected: 07/09/2004

Date received: 19/09/2004

Species: Bovine

Topotype: EA-3

Material used: BTy2

Genotype/strain: none designated

Region sequenced: VP1

Sequence filename: SUD04-26.SEQ

RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61

Date sequence last updated: 04/11/2004

No. of Nt determined: 639

Total no. of comparisons: 1517

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/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	442	0	89.29	10.71
4	O/ETH/30/94 (OVI)	ETH94A30	495	442	0	89.29	10.71
5	O/ERI/2/96 (OVI)	ERI96A02	495	440	0	88.89	11.11
6	O/ETH/3/79 (OVI)	ETH79A03	495	436	0	88.08	11.92
7	O/ETH/24/94 (OVI)	ETH94A24	495	436	0	88.08	11.92
8	O/ETH/1/79 (OVI)	ETH79A01	495	436	0	88.08	11.92
9	O/ETH/3/90 (OVI)	ETH90A03	495	435	0	87.88	12.12
10	O/YEM/4/95	YEM95-04	342	300	3	87.72	12.28

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	552	0	86.38	13.62
2	O/TAW/2/99	TAW99-02	639	550	0	86.07	13.93
3	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
4	O/IND/R2/75*	IND75--A	639	545	0	85.29	14.71
5	O/ISR/2/88	ISR88-02	639	542	0	84.82	15.18
6	O/TAI/189/87*	TAI87-AC	639	538	0	84.19	15.81
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	511	0	79.97	20.03
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	503	0	78.72	21.28

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: SUD/30/2004
Date collected: 07/09/2004
Date received: 19/09/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61; A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 04/11/2004
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: SUD04-30.SEQ
Date sequence last updated: 04/11/2004
Total no. of comparisons: 1517
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/99	SUD99-01	639	615	0	96.24	3.76
2	O/SUD/2/86	SUD86-02	639	588	0	92.02	7.98
3	O/ETH/3/96 (OVI)	ETH96A03	495	444	0	89.7	10.3
4	O/ETH/30/94 (OVI)	ETH94A30	495	444	0	89.7	10.3
5	O/ERI/2/96 (OVI)	ERI96A02	495	442	0	89.29	10.71
6	O/ETH/3/79 (OVI)	ETH79A03	495	438	0	88.48	11.52
7	O/ETH/24/94 (OVI)	ETH94A24	495	438	0	88.48	11.52
8	O/ETH/3/90 (OVI)	ETH90A03	495	437	0	88.28	11.72
9	O/ETH/1/79 (OVI)	ETH79A01	495	436	0	88.08	11.92
10	O/ETH/12/90 (OVI)	ETH90A12	495	436	0	88.08	11.92

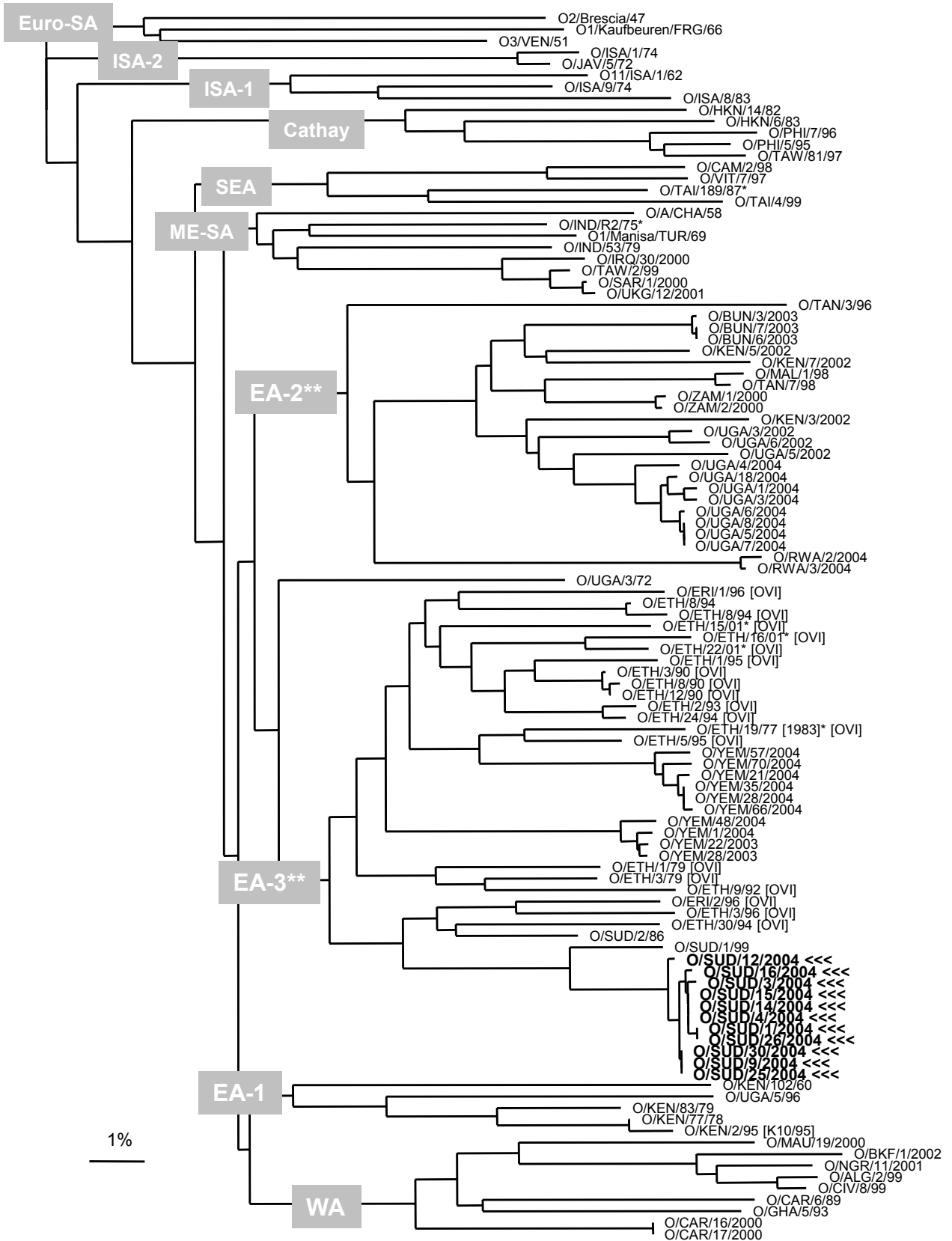
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	554	0	86.7	13.3
2	O/TAW/2/99	TAW99-02	639	552	0	86.38	13.62
3	O/IND/R2/75*	IND75--A	639	547	0	85.6	14.4
4	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
5	O/ISR/2/88	ISR88-02	639	544	0	85.13	14.87
6	O/TAI/189/87*	TAI87-AC	639	540	0	84.51	15.49
7	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
8	O/PHI/5/95	PHI95-05	639	511	0	79.97	20.03
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Sudan 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 topotype sequences. Sequences from the Onderstepoort Veterinary Institute (OVI), South Africa were shorter (495 nt).

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