

Serotype: O	Report date: 22/06/2005
WRL Ref No: PAK/1/2005	
Sender Ref: 133	
Date collected: 26/01/2005	
Date received by WRLFMD: 28/05/2005	Topotype: ME-SA
Date received for sequencing: 13/06/2005	Genotype/strain: PanAsia
Species: Bovine	Sequence filename: PAK05-01.SEQ
Material used: BTy1	Date sequence last updated: 20/06/2005
Region sequenced: VP1	Total no. of comparisons: 1699
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 25 days
No. of ambiguities: 0	Sequencing time: 9 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/PAK/7/2005	PAK05-07	639	639	0	100	0
2	O/PAK/3/2005	PAK05-03	639	638	0	99.84	0.16
3	O/PAK/2/2005	PAK05-02	639	638	0	99.84	0.16
4	O/PAK/12/2005	PAK05-12	639	637	0	99.69	0.31
5	O/PAK/11/2005	PAK05-11	639	637	0	99.69	0.31
6	O/PAK/10/2005	PAK05-10	639	636	0	99.53	0.47
7	O/IRN/20/98	IRN98-20	570	549	27	96.32	3.68
8	O/BAR/1/99	BAR99-01	323	311	0	96.28	3.72
9	O/LEB/6/98	LEB98-06	560	539	0	96.25	3.75
10	O/IND/146/98* [IVRI]	IND98-AW	639	615	0	96.24	3.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	611	0	95.62	4.38
2	O/IND/53/79 [AF292107]	IND79A53	639	575	0	89.98	10.02
3	O1/Manisa/TUR/69	TUR69--E	639	574	0	89.83	10.17
4	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
5	O/ISR/2/88	ISR88-02	639	563	0	88.11	11.89
6	O/MOR/1/91	MOR91-01	639	559	0	87.48	12.52
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	559	0	87.48	12.52
8	O/HKN/6/83	HKN83-06	637	520	2	81.63	18.37
9	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
10	O1/BFS 1860/UK/67	UKG67--A	639	519	0	81.22	18.78

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/2/2005
Sender Ref: 149
Date collected: 04/02/2005
Date received by WRLFMD: 28/05/2005
Date received for sequencing: 13/06/2005
Species: Buffalo
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: 22/06/2005
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK05-02.SEQ
Date sequence last updated: 20/06/2005
Total no. of comparisons: 1699
Min. no. of nt for comparison: 300
Total turn-around time: 25 days
Sequencing time: 9 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/7/2005	PAK05-07	639	638	0	99.84	0.16
2	O/PAK/1/2005	PAK05-01	639	638	0	99.84	0.16
3	O/PAK/3/2005	PAK05-03	639	637	0	99.69	0.31
4	O/PAK/12/2005	PAK05-12	639	636	0	99.53	0.47
5	O/PAK/11/2005	PAK05-11	639	636	0	99.53	0.47
6	O/PAK/10/2005	PAK05-10	639	635	0	99.37	0.63
7	O/IRN/20/98	IRN98-20	570	548	27	96.14	3.86
8	O/IND/146/98* [IVRI]	IND98-AW	639	614	0	96.09	3.91
9	O/LEB/6/98	LEB98-06	560	538	0	96.07	3.93
10	O/LEB/17/98	LEB98-17	624	599	3	95.99	4.01

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	610	0	95.46	4.54
2	O1/Manisa/TUR/69	TUR69--E	639	575	0	89.98	10.02
3	O/IND/53/79 [AF292107]	IND79A53	639	574	0	89.83	10.17
4	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
5	O/ISR/2/88	ISR88-02	639	564	0	88.26	11.74
6	O/MOR/1/91	MOR91-01	639	560	0	87.64	12.36
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	559	0	87.48	12.52
8	O/HKN/6/83	HKN83-06	637	519	2	81.48	18.52
9	O/PHI/5/95	PHI95-05	639	518	0	81.06	18.94
10	O1/BFS 1860/UK/67	UKG67--A	639	518	0	81.06	18.94

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 22/06/2005
WRL Ref No: PAK/3/2005	
Sender Ref: 150	
Date collected: 04/02/2005	
Date received by WRLFMD: 28/05/2005	Topotype: ME-SA
Date received for sequencing: 13/06/2005	Genotype/strain: PanAsia
Species: Buffalo	Sequence filename: PAK05-03.SEQ
Material used: BTy1	Date sequence last updated: 20/06/2005
Region sequenced: VP1	Total no. of comparisons: 1699
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 25 days
No. of ambiguities: 0	Sequencing time: 9 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/PAK/7/2005	PAK05-07	639	638	0	99.84	0.16
2	O/PAK/1/2005	PAK05-01	639	638	0	99.84	0.16
3	O/PAK/2/2005	PAK05-02	639	637	0	99.69	0.31
4	O/PAK/12/2005	PAK05-12	639	636	0	99.53	0.47
5	O/PAK/11/2005	PAK05-11	639	636	0	99.53	0.47
6	O/PAK/10/2005	PAK05-10	639	635	0	99.37	0.63
7	O/IRN/20/98	IRN98-20	570	548	27	96.14	3.86
8	O/IND/146/98* [IVRI]	IND98-AW	639	614	0	96.09	3.91
9	O/LEB/6/98	LEB98-06	560	538	0	96.07	3.93
10	O/LEB/17/98	LEB98-17	624	599	3	95.99	4.01

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	610	0	95.46	4.54
2	O/IND/53/79 [AF292107]	IND79A53	639	574	0	89.83	10.17
3	O1/Manisa/TUR/69	TUR69--E	639	573	0	89.67	10.33
4	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
5	O/ISR/2/88	ISR88-02	639	563	0	88.11	11.89
6	O/MOR/1/91	MOR91-01	639	559	0	87.48	12.52
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	558	0	87.32	12.68
8	O/HKN/6/83	HKN83-06	637	520	2	81.63	18.37
9	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
10	O1/BFS 1860/UK/67	UKG67--A	639	518	0	81.06	18.94

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/7/2005
Sender Ref: 180
Date collected: 00/02/2005
Date received by WRLFMD: 28/05/2005
Date received for sequencing: 13/06/2005
Species: Cattle
Material used: BTy2
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 22/06/2005
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK05-07.SEQ
Date sequence last updated: 20/06/2005
Total no. of comparisons: 1699
Min. no. of nt for comparison: 300
Total turn-around time: 25 days
Sequencing time: 9 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/1/2005	PAK05-01	639	639	0	100	0
2	O/PAK/2/2005	PAK05-02	639	638	0	99.84	0.16
3	O/PAK/3/2005	PAK05-03	639	638	0	99.84	0.16
4	O/PAK/12/2005	PAK05-12	639	637	0	99.69	0.31
5	O/PAK/11/2005	PAK05-11	639	637	0	99.69	0.31
6	O/PAK/10/2005	PAK05-10	639	636	0	99.53	0.47
7	O/IRN/20/98	IRN98-20	570	549	27	96.32	3.68
8	O/BAR/1/99	BAR99-01	323	311	0	96.28	3.72
9	O/LEB/6/98	LEB98-06	560	539	0	96.25	3.75
10	O/IND/146/98* [IVRI]	IND98-AW	639	615	0	96.24	3.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	611	0	95.62	4.38
2	O/IND/53/79 [AF292107]	IND79A53	639	575	0	89.98	10.02
3	O1/Manisa/TUR/69	TUR69--E	639	574	0	89.83	10.17
4	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
5	O/ISR/2/88	ISR88-02	639	563	0	88.11	11.89
6	O/MOR/1/91	MOR91-01	639	559	0	87.48	12.52
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	559	0	87.48	12.52
8	O/HKN/6/83	HKN83-06	637	520	2	81.63	18.37
9	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
10	O1/BFS 1860/UK/67	UKG67--A	639	519	0	81.22	18.78

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 22/06/2005
WRL Ref No: PAK/9/2005	
Sender Ref: 282	
Date collected: 30/03/2005	
Date received by WRLFMD: 28/05/2005	Topotype: ME-SA
Date received for sequencing: 13/06/2005	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: PAK05-09.SEQ
Material used: BTy1	Date sequence last updated: 20/06/2005
Region sequenced: VP1	Total no. of comparisons: 1699
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 25 days
No. of ambiguities: 0	Sequencing time: 9 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/PAK/13/2005	PAK05-13	639	636	0	99.53	0.47
2	O/NEP/2/2003	NEP03-02	638	628	1	98.43	1.57
3	O/BHU/33/2004	BHU04-33	639	627	0	98.12	1.88
4	O/NEP/6/2003	NEP03-06	639	627	0	98.12	1.88
5	O/BHU/14/2003	BHU03-14	623	611	0	98.07	1.93
6	O/BHU/31/2004	BHU04-31	639	626	0	97.97	2.03
7	O/BHU/30/2004	BHU04-30	639	626	0	97.97	2.03
8	O/BHU/49/2003	BHU03-49	639	626	0	97.97	2.03
9	O/BHU/26/2004	BHU04-26	639	625	0	97.81	2.19
10	O/BHU/27/2004	BHU04-27	638	624	1	97.81	2.19

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	567	0	88.73	11.27
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69	TUR69--E	639	566	0	88.58	11.42
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
6	O/ISR/2/88	ISR88-02	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	549	0	85.92	14.08
8	O/PHI/5/95	PHI95-05	639	517	0	80.91	19.09
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
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: PAK/10/2005
 Sender Ref: 285
 Date collected: 30/03/2005
 Date received by WRLFMD: 28/05/2005
 Date received for sequencing: 13/06/2005
 Species: Buffalo
 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: 22/06/2005
 Topotype: ME-SA
 Genotype/strain: PanAsia
 Sequence filename: PAK05-10.SEQ
 Date sequence last updated: 20/06/2005
 Total no. of comparisons: 1699
 Min. no. of nt for comparison: 300
 Total turn-around time: 25 days
 Sequencing time: 9 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/12/2005	PAK05-12	639	638	0	99.84	0.16
2	O/PAK/11/2005	PAK05-11	639	638	0	99.84	0.16
3	O/PAK/1/2005	PAK05-01	639	636	0	99.53	0.47
4	O/PAK/7/2005	PAK05-07	639	636	0	99.53	0.47
5	O/PAK/2/2005	PAK05-02	639	635	0	99.37	0.63
6	O/PAK/3/2005	PAK05-03	639	635	0	99.37	0.63
7	O/BAR/1/99	BAR99-01	323	311	0	96.28	3.72
8	O/IND/34/00* [IVRI]	IND00-AA	639	613	0	95.93	4.07
9	O/IND/429/98* [IVRI]	IND98-AY	639	613	0	95.93	4.07
10	O/SYR/1/99	SYR99-01	436	418	8	95.87	4.13

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	608	0	95.15	4.85
2	O/IND/53/79 [AF292107]	IND79A53	639	574	0	89.83	10.17
3	O1/Manisa/TUR/69	TUR69--E	639	573	0	89.67	10.33
4	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
5	O/ISR/2/88	ISR88-02	639	562	0	87.95	12.05
6	O/MOR/1/91	MOR91-01	639	560	0	87.64	12.36
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	558	0	87.32	12.68
8	O1/BFS 1860/UK/67	UKG67--A	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	517	2	81.16	18.84
10	O/PHI/5/95	PHI95-05	639	516	0	80.75	19.25

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 22/06/2005
WRL Ref No: PAK/11/2005	
Sender Ref: 286	
Date collected: 30/03/2005	Topotype: ME-SA
Date received by WRLFMD: 28/05/2005	Genotype/strain: PanAsia
Date received for sequencing: 13/06/2005	Sequence filename: PAK05-11.SEQ
Species: Buffalo	Date sequence last updated: 20/06/2005
Material used: BTy1	Total no. of comparisons: 1699
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R	Total turn-around time: 25 days
No. of Nt determined: 639	Sequencing time: 9 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/PAK/12/2005	PAK05-12	639	639	0	100	0
2	O/PAK/10/2005	PAK05-10	639	638	0	99.84	0.16
3	O/PAK/1/2005	PAK05-01	639	637	0	99.69	0.31
4	O/PAK/7/2005	PAK05-07	639	637	0	99.69	0.31
5	O/PAK/2/2005	PAK05-02	639	636	0	99.53	0.47
6	O/PAK/3/2005	PAK05-03	639	636	0	99.53	0.47
7	O/BAR/1/99	BAR99-01	323	311	0	96.28	3.72
8	O/IND/429/98* [IVRI]	IND98-AY	639	614	0	96.09	3.91
9	O/IRN/20/98	IRN98-20	570	547	27	95.96	4.04
10	O/IND/146/98* [IVRI]	IND98-AW	639	613	0	95.93	4.07

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	609	0	95.31	4.69
2	O/IND/53/79 [AF292107]	IND79A53	639	575	0	89.98	10.02
3	O1/Manisa/TUR/69	TUR69--E	639	574	0	89.83	10.17
4	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
5	O/ISR/2/88	ISR88-02	639	563	0	88.11	11.89
6	O/MOR/1/91	MOR91-01	639	559	0	87.48	12.52
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	559	0	87.48	12.52
8	O1/BFS 1860/UK/67	UKG67--A	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	518	2	81.32	18.68
10	O/PHI/5/95	PHI95-05	639	517	0	80.91	19.09

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/12/2005
Sender Ref: 287
Date collected: 30/03/2005
Date received by WRLFMD: 28/05/2005
Date received for sequencing: 13/06/2005
Species: Buffalo
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: 22/06/2005
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK05-12.SEQ
Date sequence last updated: 21/06/2005
Total no. of comparisons: 1699
Min. no. of nt for comparison: 300
Total turn-around time: 25 days
Sequencing time: 9 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/11/2005	PAK05-11	639	639	0	100	0
2	O/PAK/10/2005	PAK05-10	639	638	0	99.84	0.16
3	O/PAK/1/2005	PAK05-01	639	637	0	99.69	0.31
4	O/PAK/7/2005	PAK05-07	639	637	0	99.69	0.31
5	O/PAK/2/2005	PAK05-02	639	636	0	99.53	0.47
6	O/PAK/3/2005	PAK05-03	639	636	0	99.53	0.47
7	O/BAR/1/99	BAR99-01	323	311	0	96.28	3.72
8	O/IND/429/98* [IVRI]	IND98-AY	639	614	0	96.09	3.91
9	O/IRN/20/98	IRN98-20	570	547	27	95.96	4.04
10	O/IND/146/98* [IVRI]	IND98-AW	639	613	0	95.93	4.07

Relationships to Reference Virus Strains

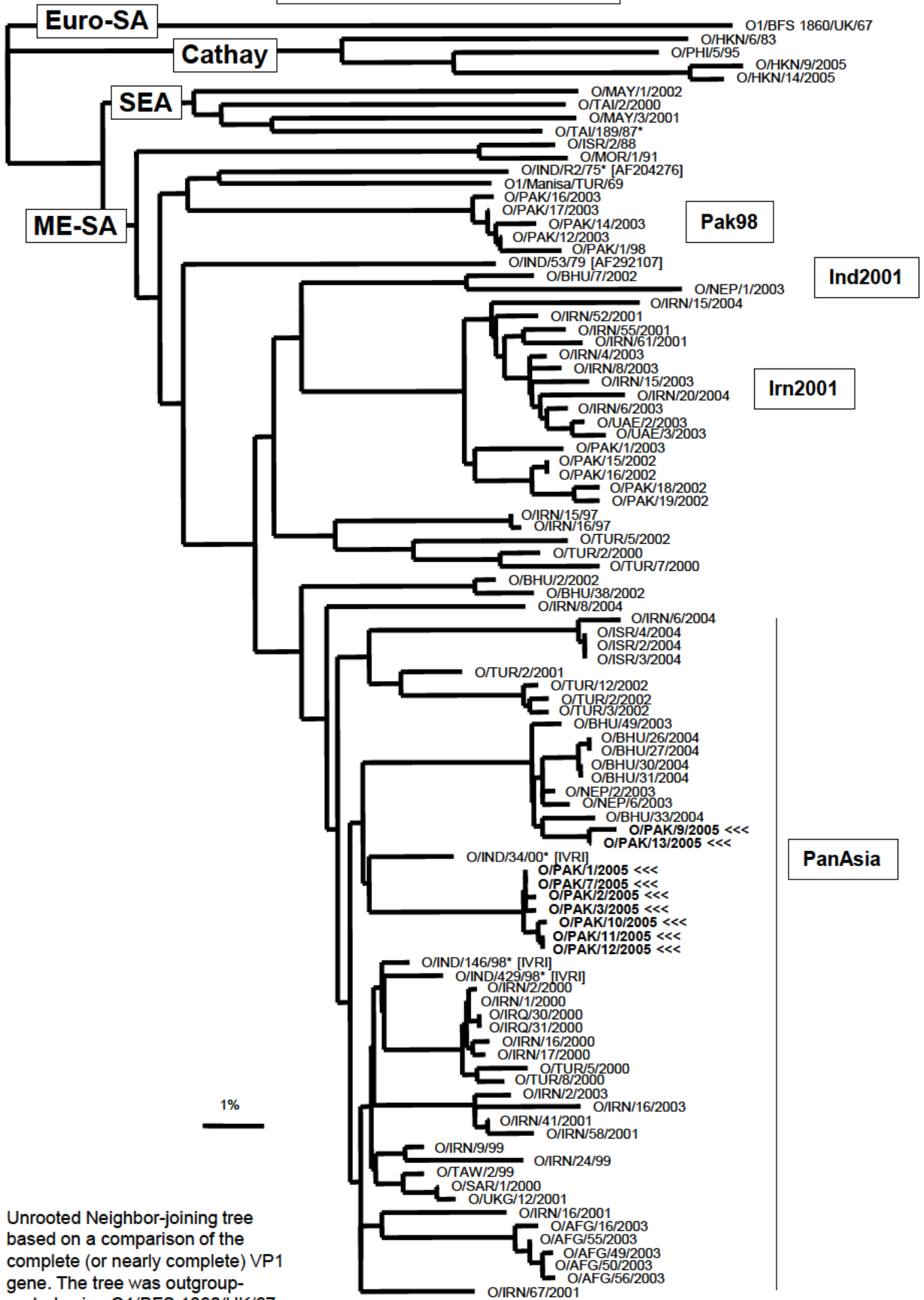
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	609	0	95.31	4.69
2	O/IND/53/79 [AF292107]	IND79A53	639	575	0	89.98	10.02
3	O1/Manisa/TUR/69	TUR69--E	639	574	0	89.83	10.17
4	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
5	O/ISR/2/88	ISR88-02	639	563	0	88.11	11.89
6	O/MOR/1/91	MOR91-01	639	559	0	87.48	12.52
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	559	0	87.48	12.52
8	O1/BFS 1860/UK/67	UKG67--A	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	518	2	81.32	18.68
10	O/PHI/5/95	PHI95-05	639	517	0	80.91	19.09

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 22/06/2005						
WRL Ref No: PAK/13/2005							
Sender Ref: 288							
Date collected: 30/03/2005							
Date received by WRLFMD: 28/05/2005	Topotype: ME-SA						
Date received for sequencing: 13/06/2005	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: PAK05-13.SEQ						
Material used: BTy1	Date sequence last updated: 21/06/2005						
Region sequenced: VP1	Total no. of comparisons: 1699						
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 25 days						
No. of ambiguities: 0	Sequencing time: 9 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/PAK/9/2005	PAK05-09	639	636	0	99.53	0.47
2	O/NEP/2/2003	NEP03-02	638	631	1	98.9	1.1
3	O/NEP/6/2003	NEP03-06	639	630	0	98.59	1.41
4	O/BHU/14/2003	BHU03-14	623	614	0	98.56	1.44
5	O/BHU/31/2004	BHU04-31	639	629	0	98.44	1.56
6	O/BHU/30/2004	BHU04-30	639	629	0	98.44	1.56
7	O/BHU/49/2003	BHU03-49	639	629	0	98.44	1.56
8	O/BHU/26/2004	BHU04-26	639	628	0	98.28	1.72
9	O/BHU/33/2004	BHU04-33	639	628	0	98.28	1.72
10	O/BHU/27/2004	BHU04-27	638	627	1	98.28	1.72
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	606	0	94.84	5.16
2	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
3	O1/Manisa/TUR/69	TUR69--E	639	569	0	89.05	10.95
4	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
6	O/ISR/2/88	ISR88-02	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	515	2	80.85	19.15
10	O1/BFS 1860/UK/67	UKG67--A	639	506	0	79.19	20.81
nt, nucleotides							
*, not a WRLFMD reference number							

Report on: O Pakistan 2005



Unrooted Neighbor-joining tree based on a comparison of the complete (or nearly complete) VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67. *, not a WRLFMD ref. no.