

Serotype: ASIA1		Report date: 18/05/2005					
ARRIAH Ref No: TAJ/1/2004							
Date collected: 2004							
Date received by WRLFMD: 03/05/2005							
Date received for sequencing: n/a		Topotype: none defined					
Species: not known		Genotype/strain: none designated					
Material used: not known		Sequence filename: TAJ04--A.SEQ					
Region sequenced: VP1		Date sequence last updated: 17/05/2005					
RT-PCR primers: not known		Total no. of comparisons: 333					
No. of Nt determined: 633		Min. no. of nt for comparison: 300					
No. of ambiguities: 0		Total turn-around time: 15 days					
Gene length: 633		Sequencing time: n/a					
Comments: Sequence only received from Alexey Sherbakov, All-Russian Research Institute for Animal Health, Vladimir, Russian Federation.							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAJ/6/2004 (ARRIAH)	TAJ04--F	633	631	0	99.68	0.32
2	As1/TAJ/3/2004 (ARRIAH)	TAJ04--C	633	631	0	99.68	0.32
3	As1/TAJ/5/2004 (ARRIAH)	TAJ04--E	633	630	0	99.53	0.47
4	As1/TAJ/2/2004 (ARRIAH)	TAJ04--B	633	630	0	99.53	0.47
5	As1/TAJ/4/2004 (ARRIAH)	TAJ04--D	633	629	0	99.37	0.63
6	As1/PAK/2/2004	PAK04-02	633	621	0	98.1	1.9
7	As1/PAK/1/2004	PAK04-01	633	621	0	98.1	1.9
8	As1/HKN/1/2005	HKN05-01	633	619	0	97.79	2.21
9	As1/PAK/69/2003	PAK03-69	633	619	0	97.79	2.21
10	As1/HKN/7/2005	HKN05-07	633	619	0	97.79	2.21
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79	IND79-08	166	153	2	92.17	7.83
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	580	0	91.63	8.37
3	As1/Shamir/ISR/89	ISR89--A	633	562	0	88.78	11.22
4	As1/TAI/85	TAI85-AA	590	496	1	84.07	15.93
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	529	0	83.57	16.43
6	As1/IND/63/72 [Y09949]	IND72B63	630	524	0	83.17	16.83
7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	526	0	83.1	16.9
8	As1/CAM/9/80	CAM80-09	583	479	5	82.16	17.84
9	As1/PAK/1/54	PAK54-01	630	504	0	80	20
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: ASIA1	Report date: 18/05/2005						
ARRIAH Ref No: TAJ/2/2004							
Date collected: 2004							
Date received by WRLFMD: 03/05/2005	Topotype: none defined						
Date received for sequencing: n/a	Genotype/strain: none designated						
Species: not known	Sequence filename: TAJ04--B.SEQ						
Material used: not known	Date sequence last updated: 17/05/2005						
Region sequenced: VP1	Total no. of comparisons: 333						
RT-PCR primers: not known	Min. no. of nt for comparison: 300						
No. of Nt determined: 633	Total turn-around time: 15 days						
No. of ambiguities: 0	Sequencing time: n/a						
Gene length: 633							
Comments: Sequence only received from Alexey Sherbakov, All-Russian Research Institute for Animal Health, Vladimir, Russian Federation.							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAJ/5/2004 (ARRIAH)	TAJ04--E	633	631	0	99.68	0.32
2	As1/TAJ/6/2004 (ARRIAH)	TAJ04--F	633	630	0	99.53	0.47
3	As1/TAJ/3/2004 (ARRIAH)	TAJ04--C	633	630	0	99.53	0.47
4	As1/TAJ/1/2004 (ARRIAH)	TAJ04--A	633	630	0	99.53	0.47
5	As1/TAJ/4/2004 (ARRIAH)	TAJ04--D	633	628	0	99.21	0.79
6	As1/PAK/2/2004	PAK04-02	633	620	0	97.95	2.05
7	As1/PAK/1/2004	PAK04-01	633	620	0	97.95	2.05
8	As1/HKN/1/2005	HKN05-01	633	618	0	97.63	2.37
9	As1/PAK/69/2003	PAK03-69	633	618	0	97.63	2.37
10	As1/HKN/7/2005	HKN05-07	633	618	0	97.63	2.37
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	581	0	91.79	8.21
2	As1/IND/8/79	IND79-08	166	152	2	91.57	8.43
3	As1/Shamir/ISR/89	ISR89--A	633	561	0	88.63	11.37
4	As1/TAI/85	TAI85-AA	590	496	1	84.07	15.93
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	529	0	83.57	16.43
6	As1/IND/63/72 [Y09949]	IND72B63	630	524	0	83.17	16.83
7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	526	0	83.1	16.9
8	As1/CAM/9/80	CAM80-09	583	477	5	81.82	18.18
9	As1/PAK/1/54	PAK54-01	630	504	0	80	20
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: ASIA1	Report date: 18/05/2005
ARRIAH Ref No: TAJ/3/2004	
Date collected: 2004	
Date received by WRLFMD: 03/05/2005	
Date received for sequencing: n/a	Topotype: none defined
Species: not known	Genotype/strain: none designated
Material used: not known	Sequence filename: TAJ04--C.SEQ
Region sequenced: VP1	Date sequence last updated: 17/05/2005
RT-PCR primers: not known	Total no. of comparisons: 333
No. of Nt determined: 633	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 15 days
Gene length: 633	Sequencing time: n/a

Comments: Sequence only received from Alexey Sherbakov, All-Russian Research Institute for Animal Health, Vladimir, Russian Federation.

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAJ/6/2004 (ARRIAH)	TAJ04--F	633	631	0	99.68	0.32
2	As1/TAJ/1/2004 (ARRIAH)	TAJ04--A	633	631	0	99.68	0.32
3	As1/TAJ/2/2004 (ARRIAH)	TAJ04--B	633	630	0	99.53	0.47
4	As1/TAJ/5/2004 (ARRIAH)	TAJ04--E	633	630	0	99.53	0.47
5	As1/TAJ/4/2004 (ARRIAH)	TAJ04--D	633	629	0	99.37	0.63
6	As1/PAK/2/2004	PAK04-02	633	621	0	98.1	1.9
7	As1/PAK/1/2004	PAK04-01	633	621	0	98.1	1.9
8	As1/HKN/1/2005	HKN05-01	633	619	0	97.79	2.21
9	As1/PAK/69/2003	PAK03-69	633	619	0	97.79	2.21
10	As1/HKN/7/2005	HKN05-07	633	619	0	97.79	2.21

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79	IND79-08	166	153	2	92.17	7.83
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	580	0	91.63	8.37
3	As1/Shamir/ISR/89	ISR89--A	633	562	0	88.78	11.22
4	As1/TAI/85	TAI85-AA	590	498	1	84.41	15.59
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	529	0	83.57	16.43
6	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	528	0	83.41	16.59
7	As1/IND/63/72 [Y09949]	IND72B63	630	524	0	83.17	16.83
8	As1/CAM/9/80	CAM80-09	583	479	5	82.16	17.84
9	As1/PAK/1/54	PAK54-01	630	505	0	80.16	19.84

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: ASIA1		Report date: 18/05/2005					
ARRIAH Ref No: TAJ/4/2004							
Date collected: 2004							
Date received by WRLFMD: 03/05/2005							
Date received for sequencing: n/a		Topotype: none defined					
Species: not known		Genotype/strain: none designated					
Material used: not known		Sequence filename: TAJ04--D.SEQ					
Region sequenced: VP1		Date sequence last updated: 17/05/2005					
RT-PCR primers: not known		Total no. of comparisons: 333					
No. of Nt determined: 633		Min. no. of nt for comparison: 300					
No. of ambiguities: 0		Total turn-around time: 15 days					
Gene length: 633		Sequencing time: n/a					
Comments: Sequence only received from Alexey Sherbakov, All-Russian Research Institute for Animal Health, Vladimir, Russian Federation.							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAJ/3/2004 (ARRIAH)	TAJ04--C	633	629	0	99.37	0.63
2	As1/TAJ/1/2004 (ARRIAH)	TAJ04--A	633	629	0	99.37	0.63
3	As1/TAJ/6/2004 (ARRIAH)	TAJ04--F	633	629	0	99.37	0.63
4	As1/TAJ/5/2004 (ARRIAH)	TAJ04--E	633	628	0	99.21	0.79
5	As1/TAJ/2/2004 (ARRIAH)	TAJ04--B	633	628	0	99.21	0.79
6	As1/PAK/2/2004	PAK04-02	633	623	0	98.42	1.58
7	As1/PAK/1/2004	PAK04-01	633	623	0	98.42	1.58
8	As1/PAK/69/2003	PAK03-69	633	621	0	98.1	1.9
9	As1/HKN/1/2005	HKN05-01	633	617	0	97.47	2.53
10	As1/HKN/7/2005	HKN05-07	633	617	0	97.47	2.53
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79	IND79-08	166	153	2	92.17	7.83
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	578	0	91.31	8.69
3	As1/Shamir/ISR/89	ISR89--A	633	564	0	89.1	10.9
4	As1/TAI/85	TAI85-AA	590	498	1	84.41	15.59
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	529	0	83.57	16.43
6	As1/IND/63/72 [Y09949]	IND72B63	630	524	0	83.17	16.83
7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	526	0	83.1	16.9
8	As1/CAM/9/80	CAM80-09	583	479	5	82.16	17.84
9	As1/PAK/1/54	PAK54-01	630	506	0	80.32	19.68
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: ASIA1	Report date: 18/05/2005
ARRIAH Ref No: TAJ/5/2004	
Date collected: 2004	
Date received by WRLFMD: 03/05/2005	
Date received for sequencing: n/a	Topotype: none defined
Species: not known	Genotype/strain: none designated
Material used: not known	Sequence filename: TAJ04--E.SEQ
Region sequenced: VP1	Date sequence last updated: 17/05/2005
RT-PCR primers: not known	Total no. of comparisons: 333
No. of Nt determined: 633	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 15 days
Gene length: 633	Sequencing time: n/a

Comments: Sequence only received from Alexey Sherbakov, All-Russian Research Institute for Animal Health, Vladimir, Russian Federation.

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAJ/2/2004 (ARRIAH)	TAJ04--B	633	631	0	99.68	0.32
2	As1/TAJ/1/2004 (ARRIAH)	TAJ04--A	633	630	0	99.53	0.47
3	As1/TAJ/3/2004 (ARRIAH)	TAJ04--C	633	630	0	99.53	0.47
4	As1/TAJ/6/2004 (ARRIAH)	TAJ04--F	633	630	0	99.53	0.47
5	As1/TAJ/4/2004 (ARRIAH)	TAJ04--D	633	628	0	99.21	0.79
6	As1/PAK/2/2004	PAK04-02	633	620	0	97.95	2.05
7	As1/PAK/1/2004	PAK04-01	633	620	0	97.95	2.05
8	As1/HKN/1/2005	HKN05-01	633	618	0	97.63	2.37
9	As1/PAK/69/2003	PAK03-69	633	618	0	97.63	2.37
10	As1/HKN/7/2005	HKN05-07	633	618	0	97.63	2.37

### Relationships to Reference Virus Strains

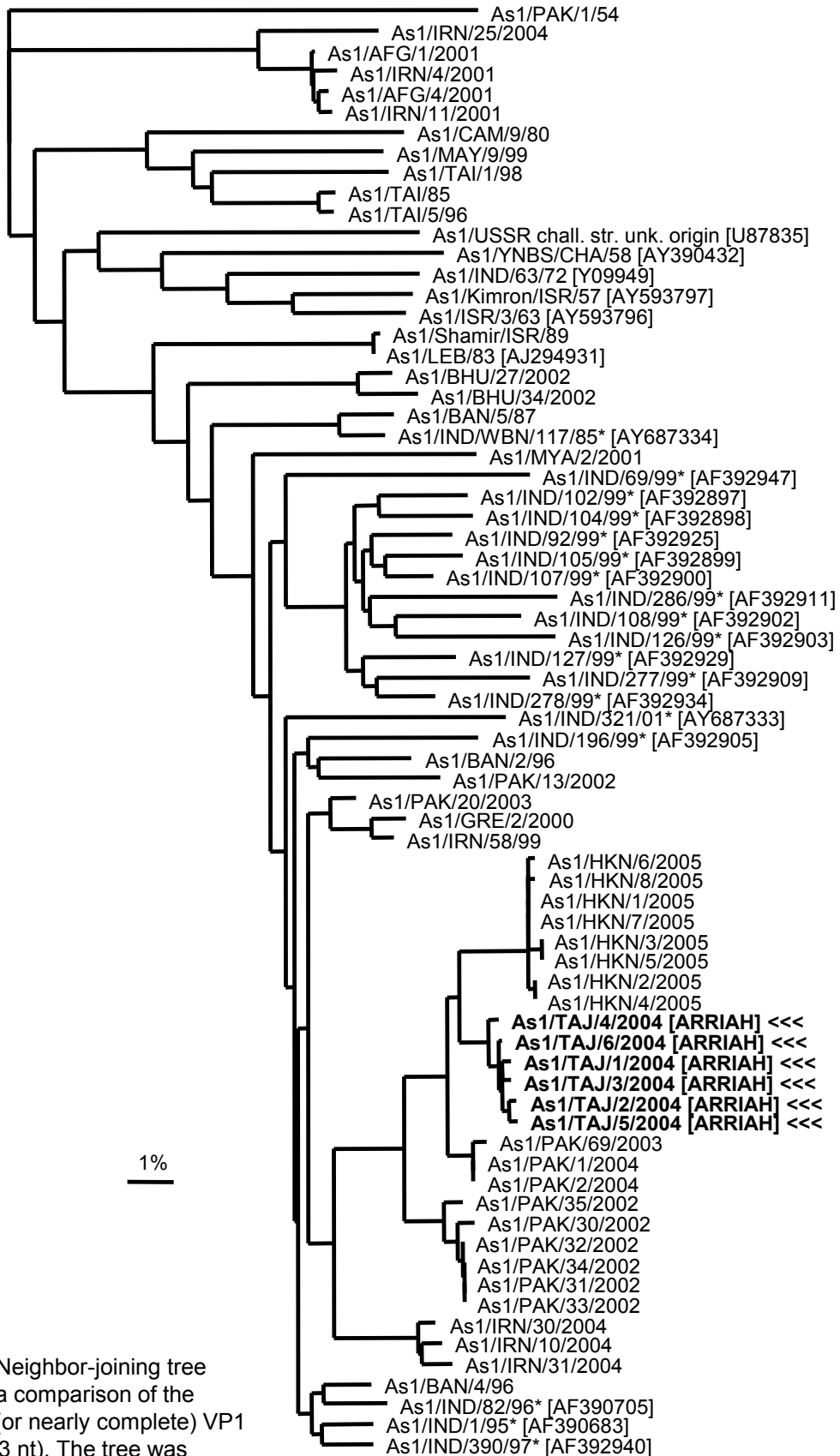
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79	IND79-08	166	153	2	92.17	7.83
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	581	0	91.79	8.21
3	As1/Shamir/ISR/89	ISR89--A	633	561	0	88.63	11.37
4	As1/TAI/85	TAI85-AA	590	497	1	84.24	15.76
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	530	0	83.73	16.27
6	As1/IND/63/72 [Y09949]	IND72B63	630	525	0	83.33	16.67
7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	527	0	83.25	16.75
8	As1/CAM/9/80	CAM80-09	583	478	5	81.99	18.01
9	As1/PAK/1/54	PAK54-01	630	505	0	80.16	19.84
10	As1/IND/8/79	IND79-08	166	153	2	92.17	7.83

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: ASIA1	Report date: 18/05/2005						
ARRIAH Ref No: TAJ/6/2004							
Date collected: 2004							
Date received by WRLFMD: 03/05/2005							
Date received for sequencing: n/a	Topotype: none defined						
Species: not known	Genotype/strain: none designated						
Material used: Epithelium	Sequence filename: TAJ04--F.SEQ						
Region sequenced: VP1	Date sequence last updated: 19/10/2004						
RT-PCR primers: not known	Total no. of comparisons: 333						
No. of Nt determined: 633	Min. no. of nt for comparison: 300						
No. of ambiguities: 0	Total turn-around time: 15 days						
Gene length: 633	Sequencing time: n/a						
Comments: Sequence only received from Alexey Sherbakov, All-Russian Research Institute for Animal Health, Vladimir, Russian Federation.							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TAJ/3/2004 (ARRIAH)	TAJ04--C	633	631	0	99.68	0.32
2	As1/TAJ/1/2004 (ARRIAH)	TAJ04--A	633	631	0	99.68	0.32
3	As1/TAJ/5/2004 (ARRIAH)	TAJ04--E	633	630	0	99.53	0.47
4	As1/TAJ/2/2004 (ARRIAH)	TAJ04--B	633	630	0	99.53	0.47
5	As1/TAJ/4/2004 (ARRIAH)	TAJ04--D	633	629	0	99.37	0.63
6	As1/PAK/2/2004	PAK04-02	633	621	0	98.1	1.9
7	As1/PAK/1/2004	PAK04-01	633	621	0	98.1	1.9
8	As1/HKN/1/2005	HKN05-01	633	619	0	97.79	2.21
9	As1/PAK/69/2003	PAK03-69	633	619	0	97.79	2.21
10	As1/HKN/7/2005	HKN05-07	633	619	0	97.79	2.21
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79	IND79-08	166	154	2	92.77	7.23
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	582	0	91.94	8.06
3	As1/Shamir/ISR/89	ISR89--A	633	564	0	89.1	10.9
4	As1/TAI/85	TAI85-AA	590	498	1	84.41	15.59
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	531	0	83.89	16.11
6	As1/IND/63/72 [Y09949]	IND72B63	630	526	0	83.49	16.51
7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	528	0	83.41	16.59
8	As1/CAM/9/80	CAM80-09	583	479	5	82.16	17.84
9	As1/PAK/1/54	PAK54-01	630	504	0	80	20
nt, nucleotides							
*, not a WRLFMD reference number							

Report on: FMDV Asia 1 in Tajikistan in 2004



Unrooted Neighbor-joining tree based on a comparison of the complete (or nearly complete) VP1 gene (~633 nt). The tree was outgroup-rooted using PAK/1/54.