

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Report Date for this Batch: 15 September 2014

FMDV type O

Country: Sri Lanka

Period: 2011-2014

No. of samples: 15

BATCH: WRLFMD/2014/00025



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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/4/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/11/02	
Location: Trincomalee, Sri Lanka	Topotype: ME-SA
Date collected: 03/05/2011	Genotype/strain: unnamed
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL11-04.SEQ
Date received for sequencing: 01/08/2014	Date sequence last updated: 05/08/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 29/07/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 44 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/7/99	SRL99-07	639	615	0	96.24	3.76	ME-SA	unnamed
2	O/SRL/1/2000	SRL00-01	639	614	0	96.09	3.91	ME-SA	unnamed
3	O/SRL/5/99	SRL99-05	639	610	0	95.46	4.54	ME-SA	unnamed
4	O/SRL/1/2009	SRL09-01	639	606	0	94.84	5.16	ME-SA	unnamed
5	O/SRL/1/2010	SRL10-01	639	606	0	94.84	5.16	ME-SA	unnamed
6	O/SRL/9/2010	SRL10-09	639	602	0	94.21	5.79	ME-SA	unnamed
7	O/SRL/2/97	SRL97-02	639	601	0	94.05	5.95	ME-SA	unnamed
8	O/SRL/3/2009	SRL09-03	639	601	0	94.05	5.95	ME-SA	unnamed
9	O/SRL/3/2010	SRL10-03	639	600	0	93.90	6.10	ME-SA	unnamed
10	O/SRL/3/99	SRL99-03	639	599	0	93.74	6.26	ME-SA	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
2	O/IRN/31/2009	IRN09-31	639	579	0	90.61	9.39	ME-SA	PanAsia-2 ^{FAR-09}
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/IRN/8/2005	IRN05-08	639	576	0	90.14	9.86	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
7	O/IRN/88/2009	IRN09-88	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{ANT-10}
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{TER-08}
9	O/UAE/4/2008	UAE08-04	636	569	0	89.47	10.53	ME-SA	Ind-2001c
10	O/PAK/16/2010	PAK10-16	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/1/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/06	
Location: Jaffna, Sri Lanka	Topotype: ME-SA
Date collected: 01/12/2013	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL13-01.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 07/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/2/2013	SRL13-02	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/IND205/2013* (PD-FMD)	IND13-AF	639	637	0	99.69	0.31	ME-SA	Ind-2001d
3	O/IND189/2013* (PD-FMD)	IND13-AE	639	636	0	99.53	0.47	ME-SA	Ind-2001d
4	O/IND219/2013* (PD-FMD)	IND13-AG	639	636	0	99.53	0.47	ME-SA	Ind-2001d
5	O/NEP/3/2013	NEP13-03	639	636	0	99.53	0.47	ME-SA	Ind-2001d
6	O/IND222/2013* (PD-FMD)	IND13-AH	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/NEP/11/2013	NEP13-11	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/NEP/12/2013	NEP13-12	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/NEP/2/2014	NEP14-02	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/NEP/6/2014	NEP14-06	639	635	0	99.37	0.63	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	616	0	96.40	3.60	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	593	0	92.80	7.20	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	592	0	92.64	7.36	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	578	0	90.88	9.12	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	575	0	89.98	10.02	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	571	0	89.36	10.64	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/2/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/13/01	
Location: Jaffna, Sri Lanka	Topotype: ME-SA
Date collected: 26/12/2013	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL13-02.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 07/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2013	SRL13-01	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/IND205/2013* (PD-FMD)	IND13-AF	639	636	0	99.53	0.47	ME-SA	Ind-2001d
3	O/IND189/2013* (PD-FMD)	IND13-AE	639	635	0	99.37	0.63	ME-SA	Ind-2001d
4	O/IND219/2013* (PD-FMD)	IND13-AG	639	635	0	99.37	0.63	ME-SA	Ind-2001d
5	O/NEP/3/2013	NEP13-03	639	635	0	99.37	0.63	ME-SA	Ind-2001d
6	O/IND222/2013* (PD-FMD)	IND13-AH	639	634	0	99.22	0.78	ME-SA	Ind-2001d
7	O/NEP/11/2013	NEP13-11	639	634	0	99.22	0.78	ME-SA	Ind-2001d
8	O/NEP/12/2013	NEP13-12	639	634	0	99.22	0.78	ME-SA	Ind-2001d
9	O/NEP/2/2014	NEP14-02	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/NEP/6/2014	NEP14-06	639	634	0	99.22	0.78	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	615	0	96.24	3.76	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	592	0	92.64	7.36	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	591	0	92.49	7.51	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	577	0	90.72	9.28	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	574	0	89.83	10.17	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	570	0	89.20	10.80	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	570	0	89.20	10.80	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/1/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/21	
Location: Gampaha, Sri Lanka	Topotype: ME-SA
Date collected: 01/01/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-01.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 08/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/5/2014	SRL14-05	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/6/2014	SRL14-06	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/15/2014	SRL14-15	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/17/2014	SRL14-17	639	638	0	99.84	0.16	ME-SA	Ind-2001d
5	O/SRL/3/2014	SRL14-03	639	638	0	99.84	0.16	ME-SA	Ind-2001d
6	O/SRL/9/2014	SRL14-09	639	638	0	99.84	0.16	ME-SA	Ind-2001d
7	O/SRL/2/2014	SRL14-02	639	637	0	99.69	0.31	ME-SA	Ind-2001d
8	O/SRL/7/2014	SRL14-07	639	637	0	99.69	0.31	ME-SA	Ind-2001d
9	O/SRL/11/2014	SRL14-11	639	636	0	99.53	0.47	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	636	0	99.53	0.47	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	614	0	96.09	3.91	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	591	0	92.49	7.51	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	590	0	92.33	7.67	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	569	0	89.05	10.95	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/2/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/26	
Location: Puttalam, Sri Lanka	Topotype: ME-SA
Date collected: 27/01/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-02.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 08/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	637	0	99.69	0.31	ME-SA	Ind-2001d
2	O/SRL/5/2014	SRL14-05	639	637	0	99.69	0.31	ME-SA	Ind-2001d
3	O/SRL/6/2014	SRL14-06	639	637	0	99.69	0.31	ME-SA	Ind-2001d
4	O/SRL/11/2014	SRL14-11	639	636	0	99.53	0.47	ME-SA	Ind-2001d
5	O/SRL/15/2014	SRL14-15	639	636	0	99.53	0.47	ME-SA	Ind-2001d
6	O/SRL/17/2014	SRL14-17	639	636	0	99.53	0.47	ME-SA	Ind-2001d
7	O/SRL/3/2014	SRL14-03	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/9/2014	SRL14-09	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/7/2014	SRL14-07	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	634	0	99.22	0.78	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	612	0	95.77	4.23	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	589	0	92.18	7.82	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	571	0	89.36	10.64	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	567	0	88.73	11.27	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	567	0	88.73	11.27	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	566	1	88.71	11.29	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/3/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/47	
Location: Jaffna, Sri Lanka	Topotype: ME-SA
Date collected: 27/01/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-03.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 07/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/SRL/5/2014	SRL14-05	639	638	0	99.84	0.16	ME-SA	Ind-2001d
3	O/SRL/6/2014	SRL14-06	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/15/2014	SRL14-15	639	637	0	99.69	0.31	ME-SA	Ind-2001d
5	O/SRL/17/2014	SRL14-17	639	637	0	99.69	0.31	ME-SA	Ind-2001d
6	O/SRL/9/2014	SRL14-09	639	637	0	99.69	0.31	ME-SA	Ind-2001d
7	O/IND205/2013* (PD-FMD)	IND13-AF	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/2/2014	SRL14-02	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/7/2014	SRL14-07	639	636	0	99.53	0.47	ME-SA	Ind-2001d
10	O/IND189/2013* (PD-FMD)	IND13-AE	639	635	0	99.37	0.63	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	615	0	96.24	3.76	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	592	0	92.64	7.36	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	591	0	92.49	7.51	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	577	0	90.72	9.28	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	574	0	89.83	10.17	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	570	0	89.20	10.80	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	570	0	89.20	10.80	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/5/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/43	
Location: Trincomalee, Sri Lanka	Topotype: ME-SA
Date collected: 06/02/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-05.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 08/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/6/2014	SRL14-06	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/15/2014	SRL14-15	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/17/2014	SRL14-17	639	638	0	99.84	0.16	ME-SA	Ind-2001d
5	O/SRL/3/2014	SRL14-03	639	638	0	99.84	0.16	ME-SA	Ind-2001d
6	O/SRL/9/2014	SRL14-09	639	638	0	99.84	0.16	ME-SA	Ind-2001d
7	O/SRL/2/2014	SRL14-02	639	637	0	99.69	0.31	ME-SA	Ind-2001d
8	O/SRL/7/2014	SRL14-07	639	637	0	99.69	0.31	ME-SA	Ind-2001d
9	O/SRL/11/2014	SRL14-11	639	636	0	99.53	0.47	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	636	0	99.53	0.47	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	614	0	96.09	3.91	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	591	0	92.49	7.51	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	590	0	92.33	7.67	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	569	0	89.05	10.95	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/6/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/38	
Location: Anuradhapura, Sri Lanka	Topotype: ME-SA
Date collected: 10/02/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-06.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 08/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/5/2014	SRL14-05	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/15/2014	SRL14-15	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/17/2014	SRL14-17	639	638	0	99.84	0.16	ME-SA	Ind-2001d
5	O/SRL/3/2014	SRL14-03	639	638	0	99.84	0.16	ME-SA	Ind-2001d
6	O/SRL/9/2014	SRL14-09	639	638	0	99.84	0.16	ME-SA	Ind-2001d
7	O/SRL/2/2014	SRL14-02	639	637	0	99.69	0.31	ME-SA	Ind-2001d
8	O/SRL/7/2014	SRL14-07	639	637	0	99.69	0.31	ME-SA	Ind-2001d
9	O/SRL/11/2014	SRL14-11	639	636	0	99.53	0.47	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	636	0	99.53	0.47	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	614	0	96.09	3.91	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	591	0	92.49	7.51	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	590	0	92.33	7.67	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	569	0	89.05	10.95	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/7/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/33	
Location: Kurunegala, Sri Lanka	Topotype: ME-SA
Date collected: 26/05/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-07.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 08/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/15/2014	SRL14-15	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/SRL/8/2014	SRL14-08	639	638	0	99.84	0.16	ME-SA	Ind-2001d
3	O/SRL/1/2014	SRL14-01	639	637	0	99.69	0.31	ME-SA	Ind-2001d
4	O/SRL/16/2014	SRL14-16	639	637	0	99.69	0.31	ME-SA	Ind-2001d
5	O/SRL/5/2014	SRL14-05	639	637	0	99.69	0.31	ME-SA	Ind-2001d
6	O/SRL/6/2014	SRL14-06	639	637	0	99.69	0.31	ME-SA	Ind-2001d
7	O/SRL/17/2014	SRL14-17	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/3/2014	SRL14-03	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/9/2014	SRL14-09	639	636	0	99.53	0.47	ME-SA	Ind-2001d
10	O/IND205/2013* (PD-FMD)	IND13-AF	639	635	0	99.37	0.63	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	614	0	96.09	3.91	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	589	0	92.18	7.82	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	571	0	89.36	10.64	ME-SA	PanAsia
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
8	O/IRN/18/2010	IRN10-18	639	567	0	88.73	11.27	ME-SA	PanAsia-2 ^{BAL-09}
9	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	566	1	88.71	11.29	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/8/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/12	
Location: Kalutara, Sri Lanka	Topotype: ME-SA
Date collected: 11/06/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-08.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 08/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/7/2014	SRL14-07	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/SRL/15/2014	SRL14-15	639	637	0	99.69	0.31	ME-SA	Ind-2001d
3	O/SRL/1/2014	SRL14-01	639	636	0	99.53	0.47	ME-SA	Ind-2001d
4	O/SRL/16/2014	SRL14-16	639	636	0	99.53	0.47	ME-SA	Ind-2001d
5	O/SRL/5/2014	SRL14-05	639	636	0	99.53	0.47	ME-SA	Ind-2001d
6	O/SRL/6/2014	SRL14-06	639	636	0	99.53	0.47	ME-SA	Ind-2001d
7	O/SRL/17/2014	SRL14-17	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/3/2014	SRL14-03	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/SRL/9/2014	SRL14-09	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/IND205/2013* (PD-FMD)	IND13-AF	639	634	0	99.22	0.78	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	613	0	95.93	4.07	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	588	0	92.02	7.98	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	572	0	89.51	10.49	ME-SA	PanAsia
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
9	O/IRN/8/2005	IRN05-08	639	568	0	88.89	11.11	ME-SA	PanAsia-2
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/9/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/08	
Location: Badulla, Sri Lanka	Topotype: ME-SA
Date collected: 13/06/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-09.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 09/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 09/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/SRL/5/2014	SRL14-05	639	638	0	99.84	0.16	ME-SA	Ind-2001d
3	O/SRL/6/2014	SRL14-06	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/15/2014	SRL14-15	639	637	0	99.69	0.31	ME-SA	Ind-2001d
5	O/SRL/17/2014	SRL14-17	639	637	0	99.69	0.31	ME-SA	Ind-2001d
6	O/SRL/3/2014	SRL14-03	639	637	0	99.69	0.31	ME-SA	Ind-2001d
7	O/SRL/2/2014	SRL14-02	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/7/2014	SRL14-07	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/11/2014	SRL14-11	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	635	0	99.37	0.63	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	613	0	95.93	4.07	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	590	0	92.33	7.67	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	589	0	92.18	7.82	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
5	O/UKG/35/2001 (AJ539141)	UKG01-35	639	574	0	89.83	10.17	ME-SA	PanAsia
6	O/IRN/31/2009	IRN09-31	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{FAR-09}
7	O/IRN/8/2005	IRN05-08	639	570	0	89.20	10.80	ME-SA	PanAsia-2
8	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	568	0	88.89	11.11	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/11/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/14	
Location: Gampaha, Sri Lanka	Topotype: ME-SA
Date collected: 16/06/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-11.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 12/09/2014
Species: Pig	No. of Nt determined: 639
Material used: RS1 10/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	636	0	99.53	0.47	ME-SA	Ind-2001d
2	O/SRL/2/2014	SRL14-02	639	636	0	99.53	0.47	ME-SA	Ind-2001d
3	O/SRL/5/2014	SRL14-05	639	636	0	99.53	0.47	ME-SA	Ind-2001d
4	O/SRL/6/2014	SRL14-06	639	636	0	99.53	0.47	ME-SA	Ind-2001d
5	O/SRL/15/2014	SRL14-15	639	635	0	99.37	0.63	ME-SA	Ind-2001d
6	O/SRL/17/2014	SRL14-17	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/3/2014	SRL14-03	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/9/2014	SRL14-09	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/SRL/7/2014	SRL14-07	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	633	0	99.06	0.94	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	612	0	95.77	4.23	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	591	0	92.49	7.51	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	571	0	89.36	10.64	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	567	0	88.73	11.27	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	567	0	88.73	11.27	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	566	1	88.71	11.29	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/15/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/07	
Location: Rathnapura, Sri Lanka	Topotype: ME-SA
Date collected: 18/06/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-15.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 12/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 09/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/SRL/5/2014	SRL14-05	639	638	0	99.84	0.16	ME-SA	Ind-2001d
3	O/SRL/6/2014	SRL14-06	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/7/2014	SRL14-07	639	638	0	99.84	0.16	ME-SA	Ind-2001d
5	O/SRL/17/2014	SRL14-17	639	637	0	99.69	0.31	ME-SA	Ind-2001d
6	O/SRL/3/2014	SRL14-03	639	637	0	99.69	0.31	ME-SA	Ind-2001d
7	O/SRL/8/2014	SRL14-08	639	637	0	99.69	0.31	ME-SA	Ind-2001d
8	O/SRL/9/2014	SRL14-09	639	637	0	99.69	0.31	ME-SA	Ind-2001d
9	O/IND205/2013* (PD-FMD)	IND13-AF	639	636	0	99.53	0.47	ME-SA	Ind-2001d
10	O/SRL/16/2014	SRL14-16	639	636	0	99.53	0.47	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	615	0	96.24	3.76	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	590	0	92.33	7.67	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	589	0	92.18	7.82	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	572	0	89.51	10.49	ME-SA	PanAsia
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
9	O/IRN/8/2005	IRN05-08	639	568	0	88.89	11.11	ME-SA	PanAsia-2
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/16/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/37	
Location: Galle, Sri Lanka	Topotype: ME-SA
Date collected: 23/06/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-16.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 12/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 10/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/7/2014	SRL14-07	639	637	0	99.69	0.31	ME-SA	Ind-2001d
2	O/SRL/15/2014	SRL14-15	639	636	0	99.53	0.47	ME-SA	Ind-2001d
3	O/SRL/8/2014	SRL14-08	639	636	0	99.53	0.47	ME-SA	Ind-2001d
4	O/SRL/1/2014	SRL14-01	639	635	0	99.37	0.63	ME-SA	Ind-2001d
5	O/SRL/5/2014	SRL14-05	639	635	0	99.37	0.63	ME-SA	Ind-2001d
6	O/SRL/6/2014	SRL14-06	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/17/2014	SRL14-17	639	634	0	99.22	0.78	ME-SA	Ind-2001d
8	O/SRL/3/2014	SRL14-03	639	634	0	99.22	0.78	ME-SA	Ind-2001d
9	O/SRL/9/2014	SRL14-09	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/IND205/2013* (PD-FMD)	IND13-AF	639	633	0	99.06	0.94	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	612	0	95.77	4.23	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	587	0	91.86	8.14	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	570	0	89.20	10.80	ME-SA	PanAsia
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	568	0	88.89	11.11	ME-SA	Pak-98
8	O/IRN/18/2010	IRN10-18	639	566	0	88.58	11.42	ME-SA	PanAsia-2 ^{BAL-09}
9	O/IRN/8/2005	IRN05-08	639	566	0	88.58	11.42	ME-SA	PanAsia-2
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	565	0	88.42	11.58	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/09/2014
WRLFMD Ref No: SRL/17/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/49	
Location: Kilinochchi, Sri Lanka	Topotype: ME-SA
Date collected: 03/07/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 10/07/2014	Sequence filename: SRL14-17.SEQ
Date received for sequencing: 04/09/2014	Date sequence last updated: 12/09/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 09/08/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3972
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 66 days
	Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SRL/1/2014	SRL14-01	639	638	0	99.84	0.16	ME-SA	Ind-2001d
2	O/SRL/5/2014	SRL14-05	639	638	0	99.84	0.16	ME-SA	Ind-2001d
3	O/SRL/6/2014	SRL14-06	639	638	0	99.84	0.16	ME-SA	Ind-2001d
4	O/SRL/15/2014	SRL14-15	639	637	0	99.69	0.31	ME-SA	Ind-2001d
5	O/SRL/3/2014	SRL14-03	639	637	0	99.69	0.31	ME-SA	Ind-2001d
6	O/SRL/9/2014	SRL14-09	639	637	0	99.69	0.31	ME-SA	Ind-2001d
7	O/SRL/2/2014	SRL14-02	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/7/2014	SRL14-07	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/11/2014	SRL14-11	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/SRL/8/2014	SRL14-08	639	635	0	99.37	0.63	ME-SA	Ind-2001d
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/BHU/3/2009	BHU09-03	639	613	0	95.93	4.07	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	590	0	92.33	7.67	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	589	0	92.18	7.82	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	572	0	89.51	10.49	ME-SA	PanAsia
7	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
8	O/IRN/8/2005	IRN05-08	639	568	0	88.89	11.11	ME-SA	PanAsia-2
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	568	0	88.89	11.11	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV O in Sri Lanka in 2011-2014

Batch: WRLFMD/2014/00025

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
14 September 2014

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