

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

Genotyping Report

Report Date for this Batch: 9 October 2014

FMDV type O

Country: Sri Lanka

Period: 2014

No. of samples: 8

BATCH: WRLFMD/2014/00030



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 09/10/2014
WRLFMD Ref No: SRL/27/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/70	
Location: Jaffna, Sri Lanka	Topotype: ME-SA
Date collected: 05/08/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-27.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 27/09/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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/5/2014	SRL14-05	639	636	0	99.53	0.47	ME-SA	Ind-2001d
3	O/SRL/6/2014	SRL14-06	639	636	0	99.53	0.47	ME-SA	Ind-2001d
4	O/SRL/15/2014	SRL14-15	639	635	0	99.37	0.63	ME-SA	Ind-2001d
5	O/SRL/17/2014	SRL14-17	639	635	0	99.37	0.63	ME-SA	Ind-2001d
6	O/SRL/3/2014	SRL14-03	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/9/2014	SRL14-09	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/2/2014	SRL14-02	639	634	0	99.22	0.78	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/11/2014	SRL14-11	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	611	0	95.62	4.38	ME-SA	Ind-2001d
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
3	O/OMN/7/2001 (DQ164941)	OMN01-07	639	588	0	92.02	7.98	ME-SA	Ind-2001b
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	573	0	89.67	10.33	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/8/2005	IRN05-08	639	569	0	89.05	10.95	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	566	0	88.58	11.42	ME-SA	Pak-98
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	565	1	88.56	11.44	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 09/10/2014
WRLFMD Ref No: SRL/28/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/71	
Location: Kandy, Sri Lanka	Topotype: ME-SA
Date collected: 01/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-28.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 27/09/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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/34/2014	SRL14-34	639	637	0	99.69	0.31	ME-SA	Ind-2001d
4	O/SRL/8/2014	SRL14-08	639	637	0	99.69	0.31	ME-SA	Ind-2001d
5	O/SRL/1/2014	SRL14-01	639	636	0	99.53	0.47	ME-SA	Ind-2001d
6	O/SRL/16/2014	SRL14-16	639	636	0	99.53	0.47	ME-SA	Ind-2001d
7	O/SRL/5/2014	SRL14-05	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/6/2014	SRL14-06	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/17/2014	SRL14-17	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/SRL/29/2014	SRL14-29	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	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	571	0	89.36	10.64	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	567	0	88.73	11.27	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/IRN/61/2001 (DQ164896)	IRN01-61	638	565	1	88.56	11.44	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 09/10/2014
WRLFMD Ref No: SRL/29/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/58	
Location: Hambantota, Sri Lanka	Topotype: ME-SA
Date collected: 10/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-29.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Water Buffalo	No. of Nt determined: 639
Material used: BTy1 28/09/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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/30/2014	SRL14-30	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/31/2014	SRL14-31	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/32/2014	SRL14-32	639	639	0	100.00	0.00	ME-SA	Ind-2001d
4	O/SRL/7/2014	SRL14-07	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/28/2014	SRL14-28	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/34/2014	SRL14-34	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/8/2014	SRL14-08	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/SRL/1/2014	SRL14-01	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/SRL/16/2014	SRL14-16	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	611	0	95.62	4.38	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/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
6	O/IRN/31/2009	IRN09-31	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{FAR-09}
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001
9	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 09/10/2014
WRLFMD Ref No: SRL/30/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/59	
Location: Hambantota, Sri Lanka	Topotype: ME-SA
Date collected: 10/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-30.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Water Buffalo	No. of Nt determined: 639
Material used: BTy1 28/09/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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/29/2014	SRL14-29	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/31/2014	SRL14-31	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/32/2014	SRL14-32	639	639	0	100.00	0.00	ME-SA	Ind-2001d
4	O/SRL/7/2014	SRL14-07	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/28/2014	SRL14-28	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/34/2014	SRL14-34	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/8/2014	SRL14-08	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/SRL/1/2014	SRL14-01	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/SRL/16/2014	SRL14-16	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	611	0	95.62	4.38	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/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
6	O/IRN/31/2009	IRN09-31	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{FAR-09}
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001
9	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 09/10/2014
WRLFMD Ref No: SRL/31/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/60	
Location: Hambantota, Sri Lanka	Topotype: ME-SA
Date collected: 10/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-31.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Water Buffalo	No. of Nt determined: 639
Material used: BTy1 27/09/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
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Comments:	

Most Closely Related Viruses									
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1	O/SRL/29/2014	SRL14-29	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/30/2014	SRL14-30	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/32/2014	SRL14-32	639	639	0	100.00	0.00	ME-SA	Ind-2001d
4	O/SRL/7/2014	SRL14-07	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/28/2014	SRL14-28	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/34/2014	SRL14-34	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/8/2014	SRL14-08	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/SRL/1/2014	SRL14-01	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/SRL/16/2014	SRL14-16	639	634	0	99.22	0.78	ME-SA	Ind-2001d
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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/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
6	O/IRN/31/2009	IRN09-31	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{FAR-09}
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001
9	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2

nt, nucleotides

*, not a WRLFMD reference number

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WRLFMD Ref No: SRL/32/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/61	
Location: Hambantota, Sri Lanka	Topotype: ME-SA
Date collected: 10/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-32.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Water Buffalo	No. of Nt determined: 639
Material used: BTy1 01/10/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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/29/2014	SRL14-29	639	639	0	100.00	0.00	ME-SA	Ind-2001d
2	O/SRL/30/2014	SRL14-30	639	639	0	100.00	0.00	ME-SA	Ind-2001d
3	O/SRL/31/2014	SRL14-31	639	639	0	100.00	0.00	ME-SA	Ind-2001d
4	O/SRL/7/2014	SRL14-07	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/28/2014	SRL14-28	639	635	0	99.37	0.63	ME-SA	Ind-2001d
7	O/SRL/34/2014	SRL14-34	639	635	0	99.37	0.63	ME-SA	Ind-2001d
8	O/SRL/8/2014	SRL14-08	639	635	0	99.37	0.63	ME-SA	Ind-2001d
9	O/SRL/1/2014	SRL14-01	639	634	0	99.22	0.78	ME-SA	Ind-2001d
10	O/SRL/16/2014	SRL14-16	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	611	0	95.62	4.38	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/UKG/35/2001 (AJ539141)	UKG01-35	639	573	0	89.67	10.33	ME-SA	PanAsia
6	O/IRN/31/2009	IRN09-31	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{FAR-09}
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001
9	O/IRN/18/2010	IRN10-18	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IRN/8/2005	IRN05-08	639	567	0	88.73	11.27	ME-SA	PanAsia-2

nt, nucleotides

*, not a WRLFMD reference number

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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: 09/10/2014
WRLFMD Ref No: SRL/34/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/74	
Location: Kandy, Sri Lanka	Topotype: ME-SA
Date collected: 15/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-34.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 01/10/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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/28/2014	SRL14-28	639	637	0	99.69	0.31	ME-SA	Ind-2001d
4	O/SRL/8/2014	SRL14-08	639	637	0	99.69	0.31	ME-SA	Ind-2001d
5	O/SRL/1/2014	SRL14-01	639	636	0	99.53	0.47	ME-SA	Ind-2001d
6	O/SRL/16/2014	SRL14-16	639	636	0	99.53	0.47	ME-SA	Ind-2001d
7	O/SRL/5/2014	SRL14-05	639	636	0	99.53	0.47	ME-SA	Ind-2001d
8	O/SRL/6/2014	SRL14-06	639	636	0	99.53	0.47	ME-SA	Ind-2001d
9	O/SRL/17/2014	SRL14-17	639	635	0	99.37	0.63	ME-SA	Ind-2001d
10	O/SRL/29/2014	SRL14-29	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	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	571	0	89.36	10.64	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/IRN/61/2001 (DQ164896)	IRN01-61	638	565	1	88.56	11.44	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 09/10/2014
WRLFMD Ref No: SRL/35/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00030	Checked by: K. Bachanek-Bankowska
Sender Ref: FMD/SL/WRL/14/76	
Location: Matara, Sri Lanka	Topotype: ME-SA
Date collected: 18/09/2014	Genotype/strain: Ind-2001d
Date received by WRLFMD: 25/09/2014	Sequence filename: SRL14-35.SEQ
Date received for sequencing: 07/10/2014	Date sequence last updated: 08/10/2014
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 01/10/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3995
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 14 days
	Sequencing time: 2 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	633	0	99.06	0.94	ME-SA	Ind-2001d
2	O/SRL/1/2014	SRL14-01	639	632	0	98.90	1.10	ME-SA	Ind-2001d
3	O/SRL/16/2014	SRL14-16	639	632	0	98.90	1.10	ME-SA	Ind-2001d
4	O/SRL/2/2014	SRL14-02	639	632	0	98.90	1.10	ME-SA	Ind-2001d
5	O/SRL/5/2014	SRL14-05	639	632	0	98.90	1.10	ME-SA	Ind-2001d
6	O/SRL/6/2014	SRL14-06	639	632	0	98.90	1.10	ME-SA	Ind-2001d
7	O/SRL/7/2014	SRL14-07	639	632	0	98.90	1.10	ME-SA	Ind-2001d
8	O/SRL/11/2014	SRL14-11	639	631	0	98.75	1.25	ME-SA	Ind-2001d
9	O/SRL/17/2014	SRL14-17	639	631	0	98.75	1.25	ME-SA	Ind-2001d
10	O/SRL/28/2014	SRL14-28	639	631	0	98.75	1.25	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	609	0	95.31	4.69	ME-SA	Ind-2001d
2	O/OMN/7/2001 (DQ164941)	OMN01-07	639	584	0	91.39	8.61	ME-SA	Ind-2001b
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	583	0	91.24	8.76	ME-SA	Ind-2001a
4	O/UAE/4/2008	UAE08-04	636	569	0	89.47	10.53	ME-SA	Ind-2001c
5	O/IRN/31/2009	IRN09-31	639	571	0	89.36	10.64	ME-SA	PanAsia-2 ^{FAR-09}
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	568	0	88.89	11.11	ME-SA	PanAsia
7	O/TUR/257/2008* (FMDI)	TUR08-AD	639	565	0	88.42	11.58	ME-SA	PanAsia-2 ^{TER-08}
8	O/IRN/18/2010	IRN10-18	639	564	0	88.26	11.74	ME-SA	PanAsia-2 ^{BAL-09}
9	O/IRN/8/2005	IRN05-08	639	564	0	88.26	11.74	ME-SA	PanAsia-2
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	564	0	88.26	11.74	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV O in Sri Lanka in 2014

Batch: WRLFMD/2014/00030

◆ 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,
09 October 2014

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