

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

## Genotyping Report

Report Date for this Batch: 10 January 2014

FMDV type A

Country: Vietnam

Period: 2013

No. of samples: 2 (in addition to 8 previously reported)

BATCH: WRLFMD/2013/00025

Three samples from which FMDV could not be isolated on cell cultures, but which were positive by real-time RT-PCR, were subjected to RT-PCR of the VP1-coding region. Two of these were positive (VIT/35/2013 & VIT/59/2013) using a FMDV type A primer set but negative using FMDV type O primers and one was negative (VIT/29/2013) using both type O and type A primers.



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# FAO World Reference Laboratory for FMD Genotyping Report

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

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Serotype: A	Report date: 10/01/2014
WRLFMD Ref No: VIT/35/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: 13-13FMD/02	
Location: Vinh Long, Vietnam	Topotype: ASIA
Date collected: 30/07/2013	Genotype/strain: Sea-97
Date received by WRLFMD: 26/11/2013	Sequence filename: VIT13-35.SEQ
Date received for sequencing: 07/01/2014	Date sequence last updated: 10/01/2014
Species: Cattle	No. of Nt determined: 636
Material used: 10% epi susp 26/11/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C612F/EUR-2B52R	Total no. of comparisons: 1813
	Min. no. of nt for comparison: 600
	Total turn-around time: 45 days
	Sequencing time: 3 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/VIT/54/2013	VIT13-54	636	636	0	100.00	0.00	ASIA	Sea-97
2	A/VIT/42/2013	VIT13-42	636	632	0	99.37	0.63	ASIA	Sea-97
3	A/VIT/59/2013	VIT13-59	636	632	0	99.37	0.63	ASIA	Sea-97
4	A/VIT/53/2013	VIT13-53	636	630	0	99.06	0.94	ASIA	Sea-97
5	A/VIT/56/2013	VIT13-56	636	629	0	98.90	1.10	ASIA	Sea-97
6	A/VIT/49/2013	VIT13-49	633	624	0	98.58	1.42	ASIA	Sea-97
7	A/VIT/58/2013	VIT13-58	636	626	0	98.43	1.57	ASIA	Sea-97
8	A/VIT/60/2013	VIT13-60	636	626	0	98.43	1.57	ASIA	Sea-97
9	A/VIT/55/2013	VIT13-55	636	624	0	98.11	1.89	ASIA	Sea-97
10	A/LAO/17/07* (TRRL)	LAO06-AP	636	602	0	94.65	5.35	ASIA	Sea-97
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TAI/7/2003 (HQ116312)	TAI03-07	636	590	0	92.77	7.23	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	576	0	90.57	9.43	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	562	0	88.36	11.64	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	525	0	82.55	17.45	ASIA	A <sub>22</sub>
5	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
6	A/IRN/1/2011	IRN11-01	636	523	0	82.23	17.77	ASIA	Iran-05 <sup>FAR-11</sup>
7	A12/UK/119/32 (M10975)	UKG32119	636	520	0	81.76	18.24	EURO-SA	A <sub>12</sub>
8	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	636	519	0	81.60	18.40	AFRICA	G-III
9	A/IRN/78/2009	IRN09-78	636	518	0	81.45	18.55	ASIA	Iran-05 <sup>FAR-09</sup>
10	A/IRN/1/96 (EF208771)	IRN96-01	635	516	1	81.26	18.74	ASIA	Iran-96

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 10/01/2014
WRLFMD Ref No: VIT/59/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00025	Checked by: K. Bachanek-Bankowska
Sender Ref: 13-14951/KH05	
Location: Khanh Hoa, Vietnam	Topotype: ASIA
Date collected: 14/11/2013	Genotype/strain: Sea-97
Date received by WRLFMD: 26/11/2013	Sequence filename: VIT13-59.SEQ
Date received for sequencing: 07/01/2014	Date sequence last updated: 10/01/2014
Species: Cattle	No. of Nt determined: 636
Material used: 10% epi susp 26/11/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C612F/EUR-2B52R	Total no. of comparisons: 1813
	Min. no. of nt for comparison: 600
	Total turn-around time: 45 days
	Sequencing time: 3 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/VIT/35/2013	VIT13-35	636	632	0	99.37	0.63	ASIA	Sea-97
2	A/VIT/54/2013	VIT13-54	636	632	0	99.37	0.63	ASIA	Sea-97
3	A/VIT/42/2013	VIT13-42	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/VIT/53/2013	VIT13-53	636	628	0	98.74	1.26	ASIA	Sea-97
5	A/VIT/56/2013	VIT13-56	636	627	0	98.58	1.42	ASIA	Sea-97
6	A/VIT/49/2013	VIT13-49	633	623	0	98.42	1.58	ASIA	Sea-97
7	A/VIT/58/2013	VIT13-58	636	624	0	98.11	1.89	ASIA	Sea-97
8	A/VIT/60/2013	VIT13-60	636	624	0	98.11	1.89	ASIA	Sea-97
9	A/VIT/55/2013	VIT13-55	636	622	0	97.80	2.20	ASIA	Sea-97
10	A/LAO/6/07* (TRRL)	LAO06-AF	636	601	0	94.50	5.50	ASIA	Sea-97
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TAI/7/2003 (HQ116312)	TAI03-07	636	589	0	92.61	7.39	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	572	0	89.94	10.06	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	558	0	87.74	12.26	ASIA	Thai-87
4	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
5	A22/IRQ/64 (AY593763)	IRQ64--A	636	523	0	82.23	17.77	ASIA	A <sub>22</sub>
6	A/IRN/1/2011	IRN11-01	636	521	0	81.92	18.08	ASIA	Iran-05 <sup>FAR-11</sup>
7	A12/UK/119/32 (M10975)	UKG32119	636	518	0	81.45	18.55	EURO-SA	A <sub>12</sub>
8	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	636	517	0	81.29	18.71	AFRICA	G-III
9	A/GHA/16/73 (KF561698)	GHA73-16	633	512	0	80.88	19.12	AFRICA	G-VI
10	A/IRN/78/2009	IRN09-78	636	514	0	80.82	19.18	ASIA	Iran-05 <sup>FAR-09</sup>

nt, nucleotides

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