

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

Genotyping Report

FMDV serotype: O
Country: Nepal
Year: 2021, 2022
Batch: WRLFMD/2023/000039C
No. of sequences: 5
Report date: 20th June 2023
Report generated by: Nick Knowles
Report checked by: Jemma Wadsworth



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www: <http://www.wrlfmd.org/>

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Virus sample name:	NEP/74/2021
Sender reference:	18 Np FMD; 98/2078/79
Location of origin:	Kavrepalanchok district, Bagmati province
Country of origin:	Nepal
Date of collection:	14/11/2021
Host species:	cattle
Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	Orig. fluid
Harvest date of material:	n/a
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	15/06/2023
Created:	20/06/2023
Last updated:	20/06/2023
VIBASys IDs: sample 53064, genome 53065, sequence viba_53066, sequencing info 53067	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_51631	OMN/22Z2086/2021_134	sheep	99.2	0	O	ME-SA	SA-2018	
viba_53074	NEP/10/2022	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51635	OMN/22Z2087/2021_135	sheep	99.2	0	O	ME-SA	SA-2018	
viba_51647	OMN/22Z2092/2021_141	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51619	OMN/22Z2065/2021_107	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51884	BAN/MY/My-466/2021	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51643	OMN/22Z2090/2021_139	cattle	99.2	0	O	ME-SA	SA-2018	
viba_52945	NEP/73/2021	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51627	OMN/22Z2085/2021_133	sheep	99.2	0	O	ME-SA	SA-2018	
viba_51892	BAN/MY/My-478/2021	cattle	99.2	0	O	ME-SA	SA-2018	

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47579	SRL/1/2019	cattle	94.2	0	O	ME-SA	SA-2018	
viba_719	IRN/88/2009		91.3	0	O	ME-SA	PanAsia-2	ANT-10
viba_666	IRN/18/2010	cattle	91.3	0	O	ME-SA	PanAsia-2	BAL-09
viba_766	IRN/31/2009	cattle	91.0	0	O	ME-SA	PanAsia-2	FAR-09
viba_650	IRN/8/2005	ovine	90.8	0	O	ME-SA	PanAsia-2	
viba_27877	SRL/2/97	bovine	90.8	0	O	ME-SA	Srl-97	
viba_285	UKG/35/2001	porcine	90.7	0	O	ME-SA	PanAsia	
viba_9021	LAO/2/2006	cattle	90.5	0	O	ME-SA	PanAsia	
viba_505	TUR/264/2009		90.2	0	O	ME-SA	PanAsia-2	SAN-09
viba_491	TUR/257/2008		90.2	0	O	ME-SA	PanAsia-2	TER-08

Virus sample name:	NEP/77/2021
Sender reference:	19 Np FMD; 101/2078/79
Location of origin:	Kathmandu district, Bagmati province
Country of origin:	Nepal
Date of collection:	17/11/2021
Host species:	cattle
Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	Orig. fluid
Harvest date of material:	n/a
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	15/06/2023
Created:	20/06/2023
Last updated:	20/06/2023
VIBASys IDs: sample 53068, genome 53069, sequence viba_53070, sequencing info 53071	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53074	NEP/10/2022	cattle	99.8	0	O	ME-SA	SA-2018	
viba_52945	NEP/73/2021	cattle	99.8	0	O	ME-SA	SA-2018	
viba_52978	NEP/86/2021		99.7	0	O	ME-SA	SA-2018	
viba_52937	NEP/71/2021	cattle	99.7	0	O	ME-SA	SA-2018	
viba_52986	NEP/88/2021	cattle	99.7	0	O	ME-SA	SA-2018	
viba_53006	NEP/2/2022	cattle	99.7	0	O	ME-SA	SA-2018	
viba_52933	NEP/70/2021	cattle	99.7	0	O	ME-SA	SA-2018	
viba_53026	NEP/8/2022	cattle	99.7	0	O	ME-SA	SA-2018	
viba_53014	NEP/4/2022	cattle	99.7	0	O	ME-SA	SA-2018	
viba_53010	NEP/3/2022	goat	99.7	0	O	ME-SA	SA-2018	

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47579	SRL/1/2019	cattle	94.8	0	O	ME-SA	SA-2018	
viba_719	IRN/88/2009		92.3	0	O	ME-SA	PanAsia-2	ANT-10
viba_766	IRN/31/2009	cattle	91.9	0	O	ME-SA	PanAsia-2	FAR-09
viba_666	IRN/18/2010	cattle	91.9	0	O	ME-SA	PanAsia-2	BAL-09
viba_650	IRN/8/2005	ovine	91.8	0	O	ME-SA	PanAsia-2	
viba_27877	SRL/2/97	bovine	91.5	0	O	ME-SA	Srl-97	
viba_505	TUR/264/2009		91.2	0	O	ME-SA	PanAsia-2	SAN-09
viba_491	TUR/257/2008		91.2	0	O	ME-SA	PanAsia-2	TER-08
viba_860	IRN/6/2015	cattle	91.2	0	O	ME-SA	PanAsia-2	QOM-15
viba_354	PAK/16/2010	cattle	91.0	0	O	ME-SA	PanAsia-2	PUN-10

Virus sample name:	NEP/10/2022
Sender reference:	56 Np FMD; 278/2078/79
Location of origin:	Syangja district, Gandaki province
Country of origin:	Nepal
Date of collection:	19/01/2022
Host species:	cattle
Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	Orig. fluid
Harvest date of material:	n/a
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	15/06/2023
Created:	20/06/2023
Last updated:	20/06/2023
VIBASys IDs: sample 53072, genome 53073, sequence viba_53074, sequencing info 53075	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52945	NEP/73/2021	cattle	100.0	0	O	ME-SA	SA-2018	
viba_52978	NEP/86/2021		99.8	0	O	ME-SA	SA-2018	
viba_53070	NEP/77/2021	cattle	99.8	0	O	ME-SA	SA-2018	
viba_52937	NEP/71/2021	cattle	99.8	0	O	ME-SA	SA-2018	
viba_52986	NEP/88/2021	cattle	99.8	0	O	ME-SA	SA-2018	
viba_53006	NEP/2/2022	cattle	99.8	0	O	ME-SA	SA-2018	
viba_52933	NEP/70/2021	cattle	99.8	0	O	ME-SA	SA-2018	
viba_53026	NEP/8/2022	cattle	99.8	0	O	ME-SA	SA-2018	
viba_53014	NEP/4/2022	cattle	99.8	0	O	ME-SA	SA-2018	
viba_53010	NEP/3/2022	goat	99.8	0	O	ME-SA	SA-2018	

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47579	SRL/1/2019	cattle	94.9	0	O	ME-SA	SA-2018	
viba_719	IRN/88/2009		92.1	0	O	ME-SA	PanAsia-2	ANT-10
viba_766	IRN/31/2009	cattle	91.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_666	IRN/18/2010	cattle	91.8	0	O	ME-SA	PanAsia-2	BAL-09
viba_650	IRN/8/2005	ovine	91.6	0	O	ME-SA	PanAsia-2	
viba_27877	SRL/2/97	bovine	91.3	0	O	ME-SA	Srl-97	
viba_505	TUR/264/2009		91.0	0	O	ME-SA	PanAsia-2	SAN-09
viba_491	TUR/257/2008		91.0	0	O	ME-SA	PanAsia-2	TER-08
viba_860	IRN/6/2015	cattle	91.0	0	O	ME-SA	PanAsia-2	QOM-15
viba_354	PAK/16/2010	cattle	90.8	0	O	ME-SA	PanAsia-2	PUN-10

Virus sample name:	NEP/12/2022
Sender reference:	54 Np FMD; 275/2078/79
Location of origin:	Dolakha district, Bagmati province
Country of origin:	Nepal
Date of collection:	23/01/2022
Host species:	cattle
Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	Orig. fluid
Harvest date of material:	n/a
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	15/06/2023
Created:	20/06/2023
Last updated:	20/06/2023
VIBASys IDs: sample 53076, genome 53077, sequence viba_53078, sequencing info 53079	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53030	NEP/13/2022	cattle	100.0	0	O	ME-SA	SA-2018	
viba_51884	BAN/MY/My-466/2021	cattle	99.5	0	O	ME-SA	SA-2018	
viba_51892	BAN/MY/My-478/2021	cattle	99.5	0	O	ME-SA	SA-2018	
viba_51896	BAN/MY/My-480/2021	cattle	99.5	0	O	ME-SA	SA-2018	
viba_51888	BAN/MY/My-469/2021	cattle	99.5	0	O	ME-SA	SA-2018	
viba_51631	OMN/22Z2086/2021_134	sheep	99.2	0	O	ME-SA	SA-2018	
viba_53074	NEP/10/2022	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51635	OMN/22Z2087/2021_135	sheep	99.2	0	O	ME-SA	SA-2018	
viba_51647	OMN/22Z2092/2021_141	cattle	99.2	0	O	ME-SA	SA-2018	
viba_51619	OMN/22Z2065/2021_107	cattle	99.2	0	O	ME-SA	SA-2018	

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47579	SRL/1/2019	cattle	94.5	0	O	ME-SA	SA-2018	
viba_719	IRN/88/2009		91.6	0	O	ME-SA	PanAsia-2	ANT-10
viba_666	IRN/18/2010	cattle	91.6	0	O	ME-SA	PanAsia-2	BAL-09
viba_650	IRN/8/2005	ovine	91.2	0	O	ME-SA	PanAsia-2	
viba_766	IRN/31/2009	cattle	91.0	0	O	ME-SA	PanAsia-2	FAR-09
viba_27877	SRL/2/97	bovine	90.8	0	O	ME-SA	Srl-97	
viba_505	TUR/264/2009		90.5	0	O	ME-SA	PanAsia-2	SAN-09
viba_491	TUR/257/2008		90.5	0	O	ME-SA	PanAsia-2	TER-08
viba_354	PAK/16/2010	cattle	90.4	0	O	ME-SA	PanAsia-2	PUN-10
viba_285	UKG/35/2001	porcine	90.4	0	O	ME-SA	PanAsia	

Virus sample name:	NEP/29/2022
Sender reference:	72 Np FMD; 367/2078/79
Location of origin:	Chitwan district, Bagmati province
Country of origin:	Nepal
Date of collection:	20/03/2022
Host species:	
Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	Orig. fluid
Harvest date of material:	n/a
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	15/06/2023
Created:	20/06/2023
Last updated:	20/06/2023
VIBASys IDs: sample 53080, genome 53081, sequence viba_53082, sequencing info 53083	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53050	NEP/27/2022	cattle	99.7	0	O	ME-SA	SA-2018	
viba_53046	NEP/26/2022	cattle	99.5	2	O	ME-SA	SA-2018	
viba_53022	NEP/7/2022	cattle	99.5	0	O	ME-SA	SA-2018	
viba_52937	NEP/71/2021	cattle	99.4	0	O	ME-SA	SA-2018	
viba_52933	NEP/70/2021	cattle	99.4	0	O	ME-SA	SA-2018	
viba_53026	NEP/8/2022	cattle	99.4	0	O	ME-SA	SA-2018	
viba_52929	NEP/69/2021		99.4	0	O	ME-SA	SA-2018	
viba_52941	NEP/72/2021	cattle	99.4	0	O	ME-SA	SA-2018	
viba_53074	NEP/10/2022	cattle	99.2	0	O	ME-SA	SA-2018	
viba_52945	NEP/73/2021	cattle	99.2	0	O	ME-SA	SA-2018	

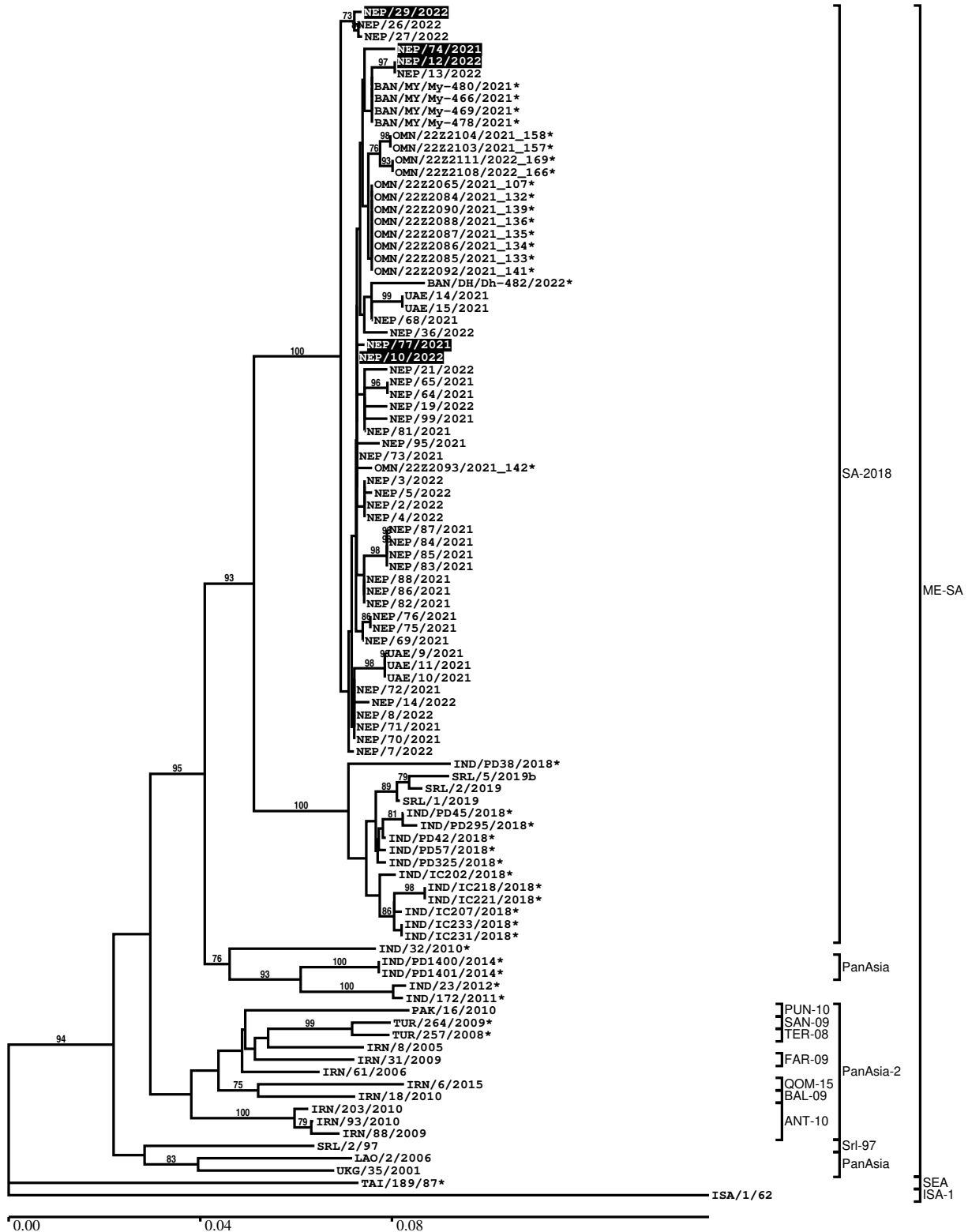
Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47579	SRL/1/2019	cattle	94.8	0	O	ME-SA	SA-2018	
viba_719	IRN/88/2009		92.6	0	O	ME-SA	PanAsia-2	ANT-10
viba_650	IRN/8/2005	ovine	92.1	0	O	ME-SA	PanAsia-2	
viba_666	IRN/18/2010	cattle	92.1	0	O	ME-SA	PanAsia-2	BAL-09
viba_766	IRN/31/2009	cattle	91.9	0	O	ME-SA	PanAsia-2	FAR-09
viba_505	TUR/264/2009		91.5	0	O	ME-SA	PanAsia-2	SAN-09
viba_491	TUR/257/2008		91.5	0	O	ME-SA	PanAsia-2	TER-08
viba_27877	SRL/2/97	bovine	91.5	0	O	ME-SA	Srl-97	
viba_354	PAK/16/2010	cattle	91.3	0	O	ME-SA	PanAsia-2	PUN-10
viba_285	UKG/35/2001	porcine	91.0	0	O	ME-SA	PanAsia	

Report on FMDV O in Nepal in 2021, 2022

Batch: WRLFMD/2023/000039C



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor: vp1_O
 Query sequence set: WRLFMD/2023/000039C-Nepal-O (5 sequences)
 Sequence database set: allseqs_O (5924 sequences)
 Prototype sequence set: !prototypes_O (58 sequences)
 Number of related sequences reported: 10
 Minimal VP1 subsequence match length: 600
 Sequence alignment method: muscle (default parameters)
 Sequence alignment length: 636
 Phylogeny reconstruction method: fdnadist, fneighbor
 Number of bootstrap samples: 1000
 Random seed for bootstrapping: 1
 Displaying bootstrap values above: 70.0%
 Number of sequences in tree capped at: 100
 Number of prototype sequences in tree: 12
 VIBASys version: reflabs-1.1.2

Sequences in the Phylogenetic Tree

All sequences in the tree are in taxonomic group FMDV/O

label	accession	host(s)	lab	country	taxonomic information
NEP/29/2022	n/a	n/a	WRLFMD	Nepal	ME-SA/SA-2018
NEP/26/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/27/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/74/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/12/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/13/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
BAN/MY/My-480/2021*	OP320458	cattle	UNIV-DHAKA	Bangladesh	ME-SA/SA-2018
BAN/MY/My-466/2021*	OP320455	cattle	UNIV-DHAKA	Bangladesh	ME-SA/SA-2018
BAN/MY/My-469/2021*	OP320456	cattle	UNIV-DHAKA	Bangladesh	ME-SA/SA-2018
BAN/MY/My-478/2021*	OP320457	cattle	UNIV-DHAKA	Bangladesh	ME-SA/SA-2018
OMN/22Z2104/2021_158*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2103/2021_157*	n/a	sheep	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2111/2022_169*	n/a	sheep	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2108/2022_166*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2065/2021_107*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2084/2021_132*	n/a	sheep	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2090/2021_139*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2088/2021_136*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2087/2021_135*	n/a	sheep	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2086/2021_134*	n/a	sheep	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2085/2021_133*	n/a	sheep	ANSES	Oman	ME-SA/SA-2018
OMN/22Z2092/2021_141*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
BAN/DH/Dh-482/2022*	OP913189	cattle	UNIV-DHAKA	Bangladesh	ME-SA/SA-2018
UAE/14/2021	n/a	sheep	WRLFMD	United Arab Emirates	ME-SA/SA-2018
UAE/15/2021	n/a	sheep	WRLFMD	United Arab Emirates	ME-SA/SA-2018
NEP/68/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/36/2022	n/a	n/a	WRLFMD	Nepal	ME-SA/SA-2018
NEP/77/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/10/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/21/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018

continued on next page

label	accession	host(s)	lab	country	taxonomic information
NEP/65/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/64/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/19/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/99/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/81/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/95/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/73/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
OMN/22Z2093/2021_142*	n/a	cattle	ANSES	Oman	ME-SA/SA-2018
NEP/3/2022	n/a	goat	WRLFMD	Nepal	ME-SA/SA-2018
NEP/5/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/2/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/4/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/87/2021	n/a	water buffalo	WRLFMD	Nepal	ME-SA/SA-2018
NEP/84/2021	n/a	n/a	WRLFMD	Nepal	ME-SA/SA-2018
NEP/85/2021	n/a	n/a	WRLFMD	Nepal	ME-SA/SA-2018
NEP/83/2021	n/a	water buffalo	WRLFMD	Nepal	ME-SA/SA-2018
NEP/88/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/86/2021	n/a	n/a	WRLFMD	Nepal	ME-SA/SA-2018
NEP/82/2021	n/a	water buffalo	WRLFMD	Nepal	ME-SA/SA-2018
NEP/76/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/75/2021	n/a	water buffalo	WRLFMD	Nepal	ME-SA/SA-2018
NEP/69/2021	n/a	n/a	WRLFMD	Nepal	ME-SA/SA-2018
UAE/9/2021	n/a	goat	WRLFMD	United Arab Emirates	ME-SA/SA-2018
UAE/11/2021	n/a	goat	WRLFMD	United Arab Emirates	ME-SA/SA-2018
UAE/10/2021	n/a	goat	WRLFMD	United Arab Emirates	ME-SA/SA-2018
NEP/72/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/14/2022	n/a	goat	WRLFMD	Nepal	ME-SA/SA-2018
NEP/8/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/71/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/70/2021	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
NEP/7/2022	n/a	cattle	WRLFMD	Nepal	ME-SA/SA-2018
IND/PD38/2018*	MT918994	cattle	PD-FMD	India	ME-SA/SA-2018
SRL/5/2019b	n/a	cattle	WRLFMD	Sri Lanka	ME-SA/SA-2018
SRL/2/2019	n/a	cattle	WRLFMD	Sri Lanka	ME-SA/SA-2018
SRL/1/2019	n/a	cattle	WRLFMD	Sri Lanka	ME-SA/SA-2018
IND/PD45/2018*	MT918997	cattle	PD-FMD	India	ME-SA/SA-2018
IND/PD295/2018*	MT919004	cattle	PD-FMD	India	ME-SA/SA-2018
IND/PD42/2018*	MT918995	cattle	PD-FMD	India	ME-SA/SA-2018
IND/PD57/2018*	MT918999	water buffalo	PD-FMD	India	ME-SA/SA-2018
IND/PD325/2018*	MT919005	cattle	PD-FMD	India	ME-SA/SA-2018
IND/IC202/2018*	MT936110	cattle	PD-FMD	India	ME-SA/SA-2018
IND/IC218/2018*	MT936113	cattle	PD-FMD	India	ME-SA/SA-2018
IND/IC221/2018*	MT936114	cattle	PD-FMD	India	ME-SA/SA-2018
IND/IC207/2018*	MT936111	cattle	PD-FMD	India	ME-SA/SA-2018
IND/IC233/2018*	MT936116	cattle	PD-FMD	India	ME-SA/SA-2018
IND/IC231/2018*	MT936115	cattle	PD-FMD	India	ME-SA/SA-2018
IND/32/2010*	KC506435	cattle	PD-FMD	India	ME-SA
IND/PD1400/2014*	MT909601	cattle	PD-FMD	India	ME-SA/PanAsia
IND/PD1401/2014*	MT909602	cattle	PD-FMD	India	ME-SA/PanAsia
IND/23/2012*	KC506439	cattle	PD-FMD	India	ME-SA
IND/172/2011*	KC506438	cattle	PD-FMD	India	ME-SA
PAK/16/2010	KY091285	cattle	WRLFMD	Pakistan	ME-SA/PanAsia-2/PUN-10
TUR/264/2009*	n/a	n/a	FMDI-Ankara	Turkey	ME-SA/PanAsia-2/SAN-09
TUR/257/2008*	n/a	n/a	FMDI-Ankara	Turkey	ME-SA/PanAsia-2/TER-08
IRN/8/2005	KY091281	ovine	WRLFMD	Iran	ME-SA/PanAsia-2
IRN/31/2009	KY091284	cattle	WRLFMD	Iran	ME-SA/PanAsia-2/FAR-09
IRN/61/2006	n/a	cattle	WRLFMD	Iran	ME-SA/PanAsia-2
IRN/6/2015	MN276044	cattle	WRLFMD	Iran	ME-SA/PanAsia-2/QOM-15
IRN/18/2010	KY091283	cattle	WRLFMD	Iran	ME-SA/PanAsia-2/BAL-09
IRN/203/2010	n/a	cattle	WRLFMD	Iran	ME-SA/PanAsia-2/ANT-10
IRN/93/2010	n/a	cattle	WRLFMD	Iran	ME-SA/PanAsia-2/ANT-10
IRN/88/2009	KY091282	n/a	WRLFMD	Iran	ME-SA/PanAsia-2/ANT-10
SRL/2/97	AJ303531	bovine	WRLFMD	Sri Lanka	ME-SA/Srl-97
LAO/2/2006	EU667451	cattle	WRLFMD	Laos	ME-SA/PanAsia

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label	accession	host(s)	lab	country	taxonomic information
UKG/35/2001	AJ539141	porcine	PIADC	United Kingdom	ME-SA/PanAsia
TAI/189/87*	KY091288	bovine	TRRL	Thailand	SEA
ISA/1/62	AJ303500	n/a	WRLFMD	Indonesia	ISA-1

*, not a WRLFMD Reference Number

n/a, not available