

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

Genotyping Report

FMDV serotype: A
Country: Tunisia
Year: 2017
Batch: WRLMEG/2018/00006
No. of sequences: 7
Report date: 26th February 2018
Report generated by: Nick Knowles
Report checked by: Kasia Bankowska

This report is prepared on behalf of the Laboratoire de santé animale, UMR Virologie, INRA, Ecole Nationale Vétérinaire d'Alfort, ANSES, Université Paris-Est, Maisons-Alfort Cedex, France and covers VP1 sequences submitted to the WRLFMD on 23/02/2018.



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

email: reporting@pirbright.ac.uk

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Virus sample name:	TUN/1/17
Sender reference:	TUN/1/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35881, genome 35882, sequence viba_35883, sequencing info 35884	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_35903	TUN/6/17		100.0	0	A	AFRICA	G-IV	
viba_35907	TUN/7/17		100.0	0	A	AFRICA	G-IV	
viba_35891	TUN/3/17		100.0	0	A	AFRICA	G-IV	
viba_35899	TUN/5/17		100.0	0	A	AFRICA	G-IV	
viba_35895	TUN/4/17		100.0	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.8	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.6	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		83.3	0	A	AFRICA	G-I	
viba_609	GHA/16/73	bovine	81.8	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.7	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		81.6	0	A	EURO-SA	A5	
viba_535	NGR/2/73	bovine	81.6	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.7	0	A	ASIA	Sea-97	

Virus sample name:	TUN/2/17
Sender reference:	TUN/2/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35885, genome 35886, sequence viba_35887, sequencing info 35888	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_33443	ALG/1/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_33447	ALG/2/2017	cattle	99.5	0	A	AFRICA	G-IV	
viba_32391	ALG/IZSLER/99572/5/2017	cattle	99.5	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.5	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.5	0	A	AFRICA	G-IV	
viba_35903	TUN/6/17		99.4	0	A	AFRICA	G-IV	
viba_35907	TUN/7/17		99.4	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.5	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.3	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		82.4	0	A	AFRICA	G-I	
viba_435	Allier/FRA/60		81.7	0	A	EURO-SA	A5	
viba_688	EGY/1/72	bovine	81.5	0	A	AFRICA	G-II	
viba_535	NGR/2/73	bovine	81.4	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	81.2	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		80.9	0	A	AFRICA	G-III	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.6	0	A	ASIA	Sea-97	

Virus sample name:	TUN/3/17
Sender reference:	TUN/3/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35889, genome 35890, sequence viba_35891, sequencing info 35892	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_35903	TUN/6/17		100.0	0	A	AFRICA	G-IV	
viba_35907	TUN/7/17		100.0	0	A	AFRICA	G-IV	
viba_35899	TUN/5/17		100.0	0	A	AFRICA	G-IV	
viba_35895	TUN/4/17		100.0	0	A	AFRICA	G-IV	
viba_35883	TUN/1/17		100.0	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.8	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.6	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		83.3	0	A	AFRICA	G-I	
viba_609	GHA/16/73	bovine	81.8	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.7	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		81.6	0	A	EURO-SA	A5	
viba_535	NGR/2/73	bovine	81.6	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.7	0	A	ASIA	Sea-97	

Virus sample name:	TUN/4/17
Sender reference:	TUN/4/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35893, genome 35894, sequence viba_35895, sequencing info 35896	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_35903	TUN/6/17		100.0	0	A	AFRICA	G-IV	
viba_35907	TUN/7/17		100.0	0	A	AFRICA	G-IV	
viba_35891	TUN/3/17		100.0	0	A	AFRICA	G-IV	
viba_35899	TUN/5/17		100.0	0	A	AFRICA	G-IV	
viba_35883	TUN/1/17		100.0	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.8	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.6	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		83.3	0	A	AFRICA	G-I	
viba_609	GHA/16/73	bovine	81.8	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.7	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		81.6	0	A	EURO-SA	A5	
viba_535	NGR/2/73	bovine	81.6	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.7	0	A	ASIA	Sea-97	

Virus sample name:	TUN/5/17
Sender reference:	TUN/5/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35897, genome 35898, sequence viba_35899, sequencing info 35900	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_35903	TUN/6/17		100.0	0	A	AFRICA	G-IV	
viba_35907	TUN/7/17		100.0	0	A	AFRICA	G-IV	
viba_35891	TUN/3/17		100.0	0	A	AFRICA	G-IV	
viba_35895	TUN/4/17		100.0	0	A	AFRICA	G-IV	
viba_35883	TUN/1/17		100.0	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.8	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.6	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		83.3	0	A	AFRICA	G-I	
viba_609	GHA/16/73	bovine	81.8	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.7	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		81.6	0	A	EURO-SA	A5	
viba_535	NGR/2/73	bovine	81.6	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.7	0	A	ASIA	Sea-97	

Virus sample name:	TUN/6/17
Sender reference:	TUN/6/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35901, genome 35902, sequence viba_35903, sequencing info 35904	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_35907	TUN/7/17		100.0	0	A	AFRICA	G-IV	
viba_35891	TUN/3/17		100.0	0	A	AFRICA	G-IV	
viba_35899	TUN/5/17		100.0	0	A	AFRICA	G-IV	
viba_35895	TUN/4/17		100.0	0	A	AFRICA	G-IV	
viba_35883	TUN/1/17		100.0	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.8	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.6	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		83.3	0	A	AFRICA	G-I	
viba_609	GHA/16/73	bovine	81.8	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.7	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		81.6	0	A	EURO-SA	A5	
viba_535	NGR/2/73	bovine	81.6	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.7	0	A	ASIA	Sea-97	

Virus sample name:	TUN/7/17
Sender reference:	TUN/7/17
Location of origin:	n/a
Country of origin:	Tunisia
Date of collection:	2017
Host species:	
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	25/02/2018
Last updated:	25/02/2018
VIBASys IDs: sample 35905, genome 35906, sequence viba_35907, sequencing info 35908	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_35903	TUN/6/17		100.0	0	A	AFRICA	G-IV	
viba_35891	TUN/3/17		100.0	0	A	AFRICA	G-IV	
viba_35899	TUN/5/17		100.0	0	A	AFRICA	G-IV	
viba_35895	TUN/4/17		100.0	0	A	AFRICA	G-IV	
viba_35883	TUN/1/17		100.0	0	A	AFRICA	G-IV	
viba_33699	ALG/IZSLER/104164/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_33451	ALG/3/2017	cattle	99.8	0	A	AFRICA	G-IV	
viba_32383	ALG/IZSLER/99572/3/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32379	ALG/IZSLER/99572/2/2017	cattle	99.7	0	A	AFRICA	G-IV	
viba_32375	ALG/IZSLER/99572/1/2017	cattle	99.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		85.8	0	A	AFRICA	G-IV	
viba_173	UGA/13/66	bovine	83.6	0	A	AFRICA	G-VII	
viba_347	KEN/42/66		83.3	0	A	AFRICA	G-I	
viba_609	GHA/16/73	bovine	81.8	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.7	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		81.6	0	A	EURO-SA	A5	
viba_535	NGR/2/73	bovine	81.6	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	
viba_625	TAI/2/97		79.7	0	A	ASIA	Sea-97	

Report on FMDV A in Tunisia in 2017

Batch: WRLMEG/2018/00006



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor:	vp1_A
Query sequence set:	WRLMEG/2018/00006-Tunisia-A (7 sequences)
Sequence database set:	allseqs_A (1789 sequences)
Prototype sequence set:	!prototypes_A (40 sequences)
Number of related sequences reported:	10
Minimal VP1 subsequence match length	600
Sequence alignment method:	muscle (default parameters)
Sequence alignment length:	630
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:	10
VIBASys version:	reflabs-1.1.2

Sequences in the Phylogenetic Tree

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

label	accession	host(s)	lab	country	taxonomic information
TUN/5/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
TUN/1/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
TUN/6/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
TUN/7/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
TUN/3/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
TUN/4/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
ALG/3/2017	n/a	cattle	WRLFMD	Algeria	AFRICA/G-IV
ALG/IZSLER/104164/3/2017*	n/a	cattle	IZSLER	Algeria	AFRICA/G-IV
TUN/2/17*	n/a	n/a	ANSES	Tunisia	AFRICA/G-IV
ALG/1/2017	MG913340	cattle	WRLFMD	Algeria	AFRICA/G-IV
ALG/IZSLER/99572/3/2017*	n/a	cattle	IZSLER	Algeria	AFRICA/G-IV
ALG/IZSLER/99572/2/2017*	n/a	cattle	IZSLER	Algeria	AFRICA/G-IV
ALG/IZSLER/99572/1/2017*	n/a	cattle	IZSLER	Algeria	AFRICA/G-IV
ALG/IZSLER/99572/4/2017*	n/a	cattle	IZSLER	Algeria	AFRICA/G-IV
ALG/2/2017	n/a	cattle	WRLFMD	Algeria	AFRICA/G-IV
ALG/IZSLER/99572/5/2017*	n/a	cattle	IZSLER	Algeria	AFRICA/G-IV
NIG/10/15*	KY655486	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/04/15*	KY655487	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/06/15*	KY655489	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/07/15*	KY655490	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/05/15*	KY655488	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/02/15*	KY655492	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/01/15*	KY655491	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
CAR/36/2013	n/a	cattle	WRLFMD	Cameroon	AFRICA/G-IV
CAR/4/2013	n/a	cattle	WRLFMD	Cameroon	AFRICA/G-IV
CAR/10/2013	n/a	cattle	WRLFMD	Cameroon	AFRICA/G-IV
CAR/11/2013	n/a	cattle	WRLFMD	Cameroon	AFRICA/G-IV
NIG/9/2012	KX258055	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/2/2011	KX258053	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/8/2012	KX258054	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/10/2012	KX258056	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/36/2009	KX258050	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/38/2009	KX258051	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/39/2009	KX258052	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/7/2013	KX258060	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/8/2013	KX258061	bovine	WRLFMD	Nigeria	AFRICA/G-IV

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label	accession	host(s)	lab	country	taxonomic information
NIG/6/2013	KX258059	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/3/2013	KX258058	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/2/13a*	KY584071	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/1/13a*	KY584070	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/12/2012	KX258057	bovine	WRLFMD	Nigeria	AFRICA/G-IV
CAR/36/2005	KX258133	cattle	WRLFMD	Cameroon	AFRICA/G-IV
CAR/116/2005	KX258135	cattle	WRLFMD	Cameroon	AFRICA/G-IV
CAR/P22/2000 fke/066/08*	n/a	n/a	WRLFMD	Cameroon	AFRICA/G-IV
ERI/3/98	KX258045	n/a	WRLFMD	Eritrea	AFRICA/G-IV
ERI/2/98	KX258044	n/a	WRLFMD	Eritrea	AFRICA/G-IV
ERI/3/97	KX258043	n/a	WRLFMD	Eritrea	AFRICA/G-IV
MAI/4/2004	KX258047	cattle	n/a	Mali	AFRICA/G-IV
MAI/12/2006	KX258048	n/a	WRLFMD	Mali	AFRICA/G-IV
CAR/13/2000	KX258131	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/12/2000	KX258130	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/14/2000	KX258132	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/15/2000	EF208755	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/P19/2000 mfa/057/01*	n/a	n/a	WRLFMD	Cameroon	AFRICA/G-IV
TOG/9/2005	KX258062	cattle	n/a	Togo	AFRICA/G-IV
NIG/3/2009	KX258049	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/16/2009*	JN680724	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/14/2009*	JN680722	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/21/2009*	JN680729	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/11/2009*	JN680719	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/8/2009*	JN680716	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/18/2009*	JN680726	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/17/2009*	JN680725	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/7/2009*	JN680715	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/6/2009*	JN680714	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/10/2009*	JN680718	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/12/2009*	JN680720	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/20/2009*	JN680728	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/3/2009a*	JN680711	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/4/2009*	JN680712	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/1/2009*	JN680709	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/2/2009*	JN680710	cattle	PIADC	Nigeria	AFRICA/G-IV
SUD/3/2006	GU566070	cattle	WRLFMD	Sudan	AFRICA/G-IV
EGY/20/2012	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/18/2012	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
SUD/12/2011	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/13/2011	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/7/2011	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/6/2011	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/2011	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/3/77	GU566064	n/a	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/81	GU566065	n/a	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/85	GU566068	n/a	WRLFMD	Sudan	AFRICA/G-IV
SUD/2/84	GU566067	n/a	WRLFMD	Sudan	AFRICA/G-IV
NGR/2/73	KF561704	bovine	WRLFMD	Niger	AFRICA/G-V
GHA/16/73	KF561698	bovine	WRLFMD	Ghana	AFRICA/G-VI
EGY/1/72	EF208756	bovine	WRLFMD	Egypt	AFRICA/G-II
KEN/3/64	AY593761	n/a	PIADC	Kenya	AFRICA/G-III
KEN/42/66	KF561699	n/a	WRLFMD	Kenya	AFRICA/G-I
UGA/13/66	KF561705	bovine	WRLFMD	Uganda	AFRICA/G-VII
Cruzeiro/BRA/55*	AY593768	bovine	PIADC	Brazil	EURO-SA/A24
UKG/119/32	M10975	n/a	PIADC	United Kingdom	EURO-SA/A12
Allier/FRA/60*	AY593780	n/a	PIADC	France	EURO-SA/A5
IRQ/24/64	AY593763	bovine	PIADC	Iraq	ASIA/A22
TAI/2/97	EF208778	n/a	WRLFMD	Thailand	ASIA/Sea-97

*, not a WRLFMD Reference Number
n/a, not available