

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

## Genotyping Report

Report Date for this Batch: 7 July 2010

FMDV type O

Country: Nigeria

Period: 2009

No. of isolates: 1

BATCH: WRLFMD/2010/000022



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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: NIG/15/2009 Batch No: WRLFMD/2010/00022 Sender Ref: 09/09 DL/JS/RTY/FMD/OL1 Location: Federal Lowest Area Joss, Plateau State, North Central, Nigeria Date collected: 25/08/2009 Date received by WRLFMD: 16/03/2010 Date received for sequencing: 09/06/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 07/07/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: EA-3 Genotype/strain: Unnamed Sequence filename: NIG09-15.SEQ Date sequence last updated: 07/07/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2152 Min. no. of nt for comparison: 600 Total turn-around time: 113 days Sequencing time: 28 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/SUD/3/2005 (GU566058)	SUD05-03	639	610	0	95.46	4.54	EA-3	unnamed
2	O/SUD/1/2005 (GU566056)	SUD05-01	639	609	0	95.31	4.69	EA-3	unnamed
3	O/SUD/2/2005 (GU566057)	SUD05-02	639	609	0	95.31	4.69	EA-3	unnamed
4	O/NIG/1/2007	NIG07-01	639	602	0	94.21	5.79	EA-3	unnamed
5	O/SUD/3/2004 (GU566046)	SUD04-03	639	601	0	94.05	5.95	EA-3	unnamed
6	O/SUD/14/2004 (GU566050)	SUD04-14	639	600	0	93.90	6.10	EA-3	unnamed
7	O/SUD/15/2004 (GU566051)	SUD04-15	639	600	0	93.90	6.10	EA-3	unnamed
8	O/SUD/4/2004 (GU566047)	SUD04-04	639	600	0	93.90	6.10	EA-3	unnamed
9	O/SUD/1/2004 (GU566045)	SUD04-01	639	599	0	93.74	6.26	EA-3	unnamed
10	O/SUD/16/2004 (GU566052)	SUD04-16	639	599	0	93.74	6.26	EA-3	unnamed
<b>Most Closely Related Reference Viruses</b>									
(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	O/SUD/2/86 (DQ165075)	SUD86-02	639	571	0	89.36	10.64	EA-3	unnamed
2	O/ETH/1/2007 (FJ798137)	ETH07-01	639	558	0	87.32	12.68	EA-3	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	547	0	85.60	14.40	ME-SA	unnamed
4	O/UGA/17/98 (HM211075)	UGA98-17	639	547	0	85.60	14.40	EA-4	unnamed
5	O/ETH/3/2004 (FJ798109)	ETH04-03	639	546	0	85.45	14.55	EA-3	unnamed
6	O/GHA/5/93 (AJ303488)	GHA93-05	639	546	0	85.45	14.55	WA	unnamed
7	O/ETH/2/2006 (FJ798127)	ETH06-02	639	544	0	85.13	14.87	EA-3	unnamed
8	O/K83/79* (AJ303511)	KEN79B83	638	541	1	84.80	15.20	EA-1	unnamed
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	541	0	84.66	15.34	ME-SA	PanAsia
10	O/CIV/8/99 (AJ303485)	CIV99-08	639	540	0	84.51	15.49	WA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v3.1

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# Report on FMDV O in Nigeria in 2009

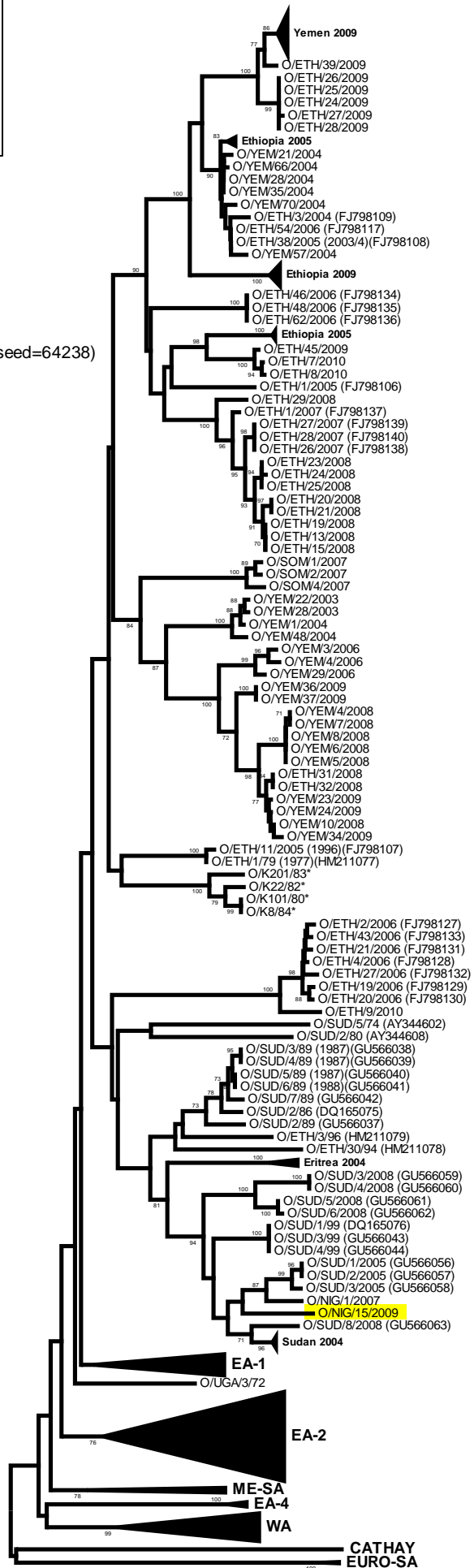
Batch: WRLFMD/2010/00022

Software: MEGA 4.0  
 No. of Taxa : 273  
 Data File : n:\evd\meg\db\fmdv\o\NIG2009a.meg  
 Data Title : O Nigeria 2009  
 Data Type : Nucleotide (Coding)  
 Analysis : Phylogeny reconstruction  
 Tree Inference : =====  
 ->Method : Neighbor-Joining  
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)  
 Include Sites : =====  
 ->Gaps/Missing Data : Pairwise Deletion  
 ->Codon Positions : 1st+2nd+3rd+Noncoding  
 Substitution Model : =====  
 ->Model : Nucleotide: Kimura 2-parameter  
 ->Substitutions to Include : d: Transitions + Transversions  
 ->Pattern among Lineages : Same (Homogeneous)  
 ->Rates among sites : Uniform rates  
 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, 07 July 2010

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