

Serotype: O		Report date: 28/03/2008					
WRL Ref No: SAU/1/2008							
Sender Ref: AL NAKHEEL							
Date collected: 01/03/2008							
Date received by WRLFMD: 13/03/2008		Topotype: ME-SA					
Date received for sequencing: 19/03/2008		Genotype/strain: PanAsia 2					
Species: Cattle		Sequence filename: SAU08-01.SEQ					
Material used: BTy1		Date sequence last updated: 28/03/2008					
Region sequenced: VP1		Total no. of comparisons: 1717					
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 639		Total turn-around time: 15 days					
No. of ambiguities: 0		Sequencing time: 9 days					
Gene length: 639							
Comments:							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/2/2008	SAU08-02	639	639	0	100	0
2	O/BAR/1/2008	BAR08-01	639	636	0	99.53	0.47
3	O/BAR/2/2008	BAR08-02	639	636	0	99.53	0.47
4	O/BAR/3/2008	BAR08-03	639	636	0	99.53	0.47
5	O/KUW/1/2008	KUW08-01	639	633	0	99.06	0.94
6	O/KUW/10/2008	KUW08-10	639	633	0	99.06	0.94
7	O/KUW/2/2008	KUW08-02	639	633	0	99.06	0.94
8	O/KUW/6/2008	KUW08-06	639	633	0	99.06	0.94
9	O/KUW/7/2008	KUW08-07	639	633	0	99.06	0.94
10	O/KUW/8/2008	KUW08-08	639	633	0	99.06	0.94
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	595	0	93.11	6.89
2	O/IND/53/79 [AF292107]	IND79A53	639	563	0	88.11	11.89
3	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
4	O/IND/R2/75* [AF204276]	IND75--A	639	559	0	87.48	12.52
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	550	0	86.07	13.93
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	548	0	85.76	14.24
7	O/MOR/1/91	MOR91-01	639	544	0	85.13	14.87
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	514	2	80.69	19.31
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	507	0	79.34	20.66
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O		Report date: 28/03/2008					
WRL Ref No: SAU/2/2008							
Sender Ref: AL NAKHEEL							
Date collected: 01/03/2008							
Date received by WRLFMD: 13/03/2008				Topotype: ME-SA			
Date received for sequencing: 19/03/2008				Genotype/strain: PanAsia 2			
Species: Cattle				Sequence filename: SAU08-02.SEQ			
Material used: BTy1				Date sequence last updated: 28/03/2008			
Region sequenced: VP1				Total no. of comparisons: 1717			
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R				Min. no. of nt for comparison: 300			
No. of Nt determined: 639				Total turn-around time: 15 days			
No. of ambiguities: 0				Sequencing time: 9 days			
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7	O/KUW/2/2008	KUW08-02	639	633	0	99.06	0.94
8	O/KUW/6/2008	KUW08-06	639	633	0	99.06	0.94
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10	O/KUW/8/2008	KUW08-08	639	633	0	99.06	0.94
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nt, nucleotides							
*, not a WRLFMD reference number							

# Report on FMD type O viruses from Saudi Arabia in 2008

No. of Taxa : 161  
 Data File : n:\evd\meg\db\fmdv\o\SAU2008a.meg  
 Data Title : Saudi Arabia 2008  
 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 : 639  
 No Of Bootstrap Reps = 1000  
 Only bootstrap values of 70% and less are shown  
 \*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 28 March 2008

