

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: O		Report date: 13/02/2004					
Virus isolate: BUN/7/2003							
Material used: BTy1							
Region sequenced: VP1		Topotype: East Africa 2 (EA-2)					
RT-PCR primers: FMD-1C436F/NK61		Genotype/strain: none designated					
No. of nt determined: 639		Seq. filename: BUN03-07					
No. nt in gene: 639		Date sequence last updated: 21/10/2003					
No. of ambiguities: 0		Total no. of comparisons made: 1327					
Comments: This isolate, along with the other 4 received at the same time, belong to a newly recognized FMDV O topotype which we have named East Africa 2 (EA-2).							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/BUN/6/2003	BUN03A06	628	628	0	100.00	0.00
2	O/BUN/3/2003	BUN03A03	634	633	4	99.84	0.16
3	O/BUN/2/2003	BUN03-02	450	444	1	98.67	1.33
4	O/BUN/1/2003	BUN03-01	240	235	3	97.92	2.08
5	O/KEN/18/98 (K82/98)	KEN98-18	384	364	17	94.79	5.21
6	O/KEN/5/2002	KEN02-05	639	601	0	94.05	5.95
7	UG 5/02/O*	UGA02-AA	489	455	1	93.05	6.95
8	UG 11/02/O*	UGA02-AB	495	459	0	92.73	7.27
9	O/KEN/7/2002	KEN02-07	639	592	0	92.64	7.36
10	O/TAN/7/98	TAN98-07	627	580	9	92.50	7.50
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/MOR/1/91	MOR91-01	207	178	3	85.99	14.01
2	O/IND/R2/75*	IND75--A	639	544	0	85.13	14.87
3	O1/Manisa/TUR/69	TUR69--E	639	543	0	84.98	15.02
4	O/IND/53/79	IND79A53	639	543	0	84.98	15.02
5	O/ISR/1/88	ISR88-01	193	164	5	84.97	15.03
6	O/TAW/2/99	TAW99-02	639	542	0	84.82	15.18
7	O/TAI/189/87*	TAI87--B	527	429	3	81.40	18.60
8	O1/BFS 1860/UK/67	UKG67--A	639	518	0	81.06	18.94
9	O/PHI/5/95	PHI95-05	516	416	6	80.62	19.38
10	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
nt, nucleotides							
*, not a WRLFMD reference number							