

Serotype: SAT1	Report date: 15/11/2004
WRL Ref No: NMB/1/2000	
Date collected: 18/08/2000	
Date received: 17/05/2004	Topotype: Western Zimbabwe (WZ)
Species: Bovine	Genotype/strain: none designated
Material used: IRPI2 BTY1	Sequence filename: NMB00-01.SEQ
Region sequenced: VP1	Date sequence last updated: 19/08/2004
RT-PCR primers: SAT1U-OS/SAT-2B208R	Total no. of comparisons: 209
No. of Nt determined: 663	Min. no. of nt for comparison: 300
No. of ambiguities: 0	
Gene length: 663	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/ZIM/P45/91 buffalo MT6	ZIM91B72	392	364	5	92.86	7.14
2	SAT1/ZAM/4/2000	ZAM00-04	663	614	0	92.61	7.39
3	SAT1/NAM/307/98* (AF137409)	NAM98-AD	405	361	0	89.14	10.86
4	SAT1/SWA/2/89* (AF056512)	NAM89-AA	420	372	0	88.57	11.43
5	SAT1/NAM/306/98* (AF137408)	NAM98-AC	405	358	0	88.4	11.6
6	SAT1/SWA/40/61 (AY593843)	SWA61-40	663	583	0	87.93	12.07
7	SAT1/NAM/308/98* (AF137410)	NAM98-AE	405	356	0	87.9	12.1
8	SAT1/BOT/P3/98 buffalo 25	BOW98-14	376	330	5	87.77	12.23
9	SAT1/BOT/P3/98 buffalo 8 (AF301432)	BOW98-AB	401	351	1	87.53	12.47
10	SAT1/BOT/P3/98 buffalo 37(AF137405)	BOW98-AE	405	354	0	87.41	12.59

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/SWA/40/61 AY593843	SWA61-40	663	583	0	87.93	12.07
2	SAT1/SA/13/61 AY593842	SAR61-13	663	576	0	86.88	13.12
3	SAT1/BOT/1/68 Z98203	BOT68-B1	663	571	0	86.12	13.88
4	SAT1/SWA/1/49 AY593840	SWA49-01	663	569	0	85.82	14.18
5	SAT1/SA/2/58 AY593841	SAR58-02	663	567	0	85.52	14.48
6	SAT1/BEC/1/48 AY593838	BEC48-01	663	558	0	84.16	15.84
7	SAT1/RV/11/37 AY593839	RHO37-11	663	503	0	75.87	24.13
8	SAT1/RHO/5/66 AY593846	RHO66-05	663	502	0	75.72	24.28
9	SAT1/SAR/9/81	SAR81-09	629	463	11	73.61	26.39
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	452	0	68.17	31.83

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV SAT 1 isolates received from the Botswana Vaccine Institute during 2004

