

Serotype: SAT1
WRL Ref No: ZAM/1/2005
Sender Ref: ZAM 01/05 No.5 2nd P/IRPI
10/01/05
Date collected: 31/01/2005
Date received by WRLFMD: 22/08/2005
Date received for sequencing: 23/08/2005
Species: Cattle
Material used: IRPI2 BTy1
Region sequenced: VP1
RT-PCR primers: SAT1-P1-1228F/SAT-2B208R;
SAT1-1C559F/SAT-2B208R

Report date: 13/09/2005
Topotype: North-west Zimbabwe (NWZ)
Genotype/strain:
Sequence filename: ZAM05-01.SEQ
Date sequence last updated: 12/09/2005
Total no. of comparisons: 219
Min. no. of nt for comparison: 300
Total turn-around time: 22 days
Sequencing time: 21 days

No. of Nt determined: 663
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/ZAM/2/2005	ZAM05-02	663	663	0	100	0
2	SAT1/ZAM/14/2004	ZAM04-14	662	660	1	99.7	0.3
3	SAT1/ZAM/3/2004	ZAM04-03	662	660	1	99.7	0.3
4	SAT1/ZAM/10/2004	ZAM04-10	662	660	1	99.7	0.3
5	SAT1/ZAM/11/2004	ZAM04-11	662	660	1	99.7	0.3
6	SAT1/ZAM/6/2004	ZAM04-06	662	660	1	99.7	0.3
7	SAT1/ZAM/7/2004	ZAM04-07	662	660	1	99.7	0.3
8	SAT1/ZAM/2/2004	ZAM04-02	662	660	1	99.7	0.3
9	SAT1/ZAM/8/2004	ZAM04-08	662	660	1	99.7	0.3
10	SAT1/ZAM/13/2004	ZAM04-13	662	660	1	99.7	0.3

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/T155/71	TAN71155	663	582	0	87.78	12.22
2	SAT1/RV/11/37 AY593839	RHO37-11	663	523	0	78.88	21.12
3	SAT1/SAR/9/81	SAR81-09	629	482	11	76.63	23.37
4	SAT1/RHO/5/66 AY593846	RHO66-05	663	507	0	76.47	23.53
5	SAT1/SWA/40/61 AY593843	SWA61-40	663	498	0	75.11	24.89
6	SAT1/SA/13/61 AY593842	SAR61-13	663	494	0	74.51	25.49
7	SAT1/SA/2/58 AY593841	SAR58-02	663	492	0	74.21	25.79
8	SAT1/BOT/1/68 [Z98203]	BOT68-B1	663	490	0	73.91	26.09
9	SAT1/BEC/1/48 AY593838	BEC48-01	663	487	0	73.45	26.55
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	456	0	68.78	31.22

nt, nucleotides
*, not a WRLFMD reference number

Serotype: SAT1
WRL Ref No: ZAM/2/2005
Sender Ref: ZAM 01/05 No. 6 2nd P/IRPI
10/01/05
Date collected: 31/01/2005
Date received by WRLFMD: 22/08/2005
Date received for sequencing: 23/08/2005
Species: Cattle
Material used: IRPI2 BTy1
Region sequenced: VP1
RT-PCR primers: SAT1-P1-1228F/SAT-2B208R;
SAT1-1C559F/SAT-2B208R
No. of Nt determined: 663
No. of ambiguities: 0
Gene length: 663

Report date: 13/09/2005
Topotype: North-west Zimbabwe (NWZ)
Genotype/strain:
Sequence filename: ZAM05-02.SEQ
Date sequence last updated: 12/09/2005
Total no. of comparisons: 219
Min. no. of nt for comparison: 300
Total turn-around time: 22 days
Sequencing time: 21 days

Comments:

Ten Most Closely Related Viruses

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2	SAT1/ZAM/14/2004	ZAM04-14	662	660	1	99.7	0.3
3	SAT1/ZAM/3/2004	ZAM04-03	662	660	1	99.7	0.3
4	SAT1/ZAM/10/2004	ZAM04-10	662	660	1	99.7	0.3
5	SAT1/ZAM/11/2004	ZAM04-11	662	660	1	99.7	0.3
6	SAT1/ZAM/6/2004	ZAM04-06	662	660	1	99.7	0.3
7	SAT1/ZAM/7/2004	ZAM04-07	662	660	1	99.7	0.3
8	SAT1/ZAM/2/2004	ZAM04-02	662	660	1	99.7	0.3
9	SAT1/ZAM/8/2004	ZAM04-08	662	660	1	99.7	0.3
10	SAT1/ZAM/13/2004	ZAM04-13	662	660	1	99.7	0.3

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4	SAT1/RHO/5/66 AY593846	RHO66-05	663	507	0	76.47	23.53
5	SAT1/SWA/40/61 AY593843	SWA61-40	663	498	0	75.11	24.89
6	SAT1/SA/13/61 AY593842	SAR61-13	663	494	0	74.51	25.49
7	SAT1/SA/2/58 AY593841	SAR58-02	663	492	0	74.21	25.79
8	SAT1/BOT/1/68 [Z98203]	BOT68-B1	663	490	0	73.91	26.09
9	SAT1/BEC/1/48 AY593838	BEC48-01	663	487	0	73.45	26.55
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	456	0	68.78	31.22

nt, nucleotides

*, not a WRLFMD reference number

Report on Zambian FMDV SAT 1 isolates received from the Botswana Vaccine Institute on 22/08/2005

