

Serotype: SAT1	Report date: 15/11/2004
WRL Ref No: ZIM/2/2003	
Date collected: not known	
Date received: 17/05/2004	
Species: not known	Topotype: Western Zimbabwe (WZ)
Material used: PK1 RS1 IRPI2 BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ZIM03-02.SEQ
RT-PCR primers: SAT1U-OS/SAT-2B208R	Date sequence last updated: 13/09/2004
No. of Nt determined: 663	Total no. of comparisons: 209
No. of ambiguities: 0	Min. no. of nt for comparison: 300
Gene length: 663	

Comments: This sample also contained FMDV SAT2

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/ZIM/4/2003	ZIM03-04	663	663	0	100	0
2	SAT1/ZIM/13/2003	ZIM03-13	663	663	0	100	0
3	SAT1/ZIM/20/2003	ZIM03-20	663	663	0	100	0
4	SAT1/ZIM/21/2003	ZIM03-21	663	663	0	100	0
5	SAT1/ZIM/5/2003**	ZIM03-05	660	658	3	99.7	0.3
6	SAT1/ZIM/P1/2004 (E45)***	ZIM04-BK	663	651	0	98.19	1.81
7	SAT1/ZIM/P1/2004 (D19)***	ZIM04-BD	661	649	2	98.18	1.82
8	SAT1/ZIM/P1/2004 (C10)***	ZIM04-AN	660	648	3	98.18	1.82
9	SAT1/ BOT/P3/98 (buffalo 25)	BOW98-14	376	329	5	87.5	12.5
10	SAT1/ZIM/P45/91 (buffalo MT6)	ZIM91B72	392	342	5	87.24	12.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/SA/13/61 AY593842	SAR61-13	663	581	0	87.63	12.37
2	SAT1/SA/2/58 AY593841	SAR58-02	663	580	0	87.48	12.52
3	SAT1/SWA/1/49 AY593840	SWA49-01	663	577	0	87.03	12.97
4	SAT1/SWA/40/61 AY593843	SWA61-40	663	566	0	85.37	14.63
5	SAT1/BOT/1/68 Z98203	BOT68-B1	663	566	0	85.37	14.63
6	SAT1/BEC/1/48 AY593838	BEC48-01	663	562	0	84.77	15.23
7	SAT1/RHO/5/66 AY593846	RHO66-05	663	500	0	75.41	24.59
8	SAT1/SAR/9/81	SAR81-09	629	469	11	74.56	25.44
9	SAT1/RV/11/37 AY593839	RHO37-11	663	491	0	74.06	25.94
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	447	0	67.42	32.58

nt, nucleotides

*, not a WRLFMD reference number

** , this sample also contained FMDV SAT2

***, isolated from carrier cattle

Serotype: SAT1	Report date: 15/11/2004
WRL Ref No: ZIM/4/2003	
Date collected: not known	
Date received: 17/05/2004	
Species: not known	Topotype: Western Zimbabwe (WZ)
Material used: IRPI2 BTy1	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: ZIM03-04.SEQ
RT-PCR primers: SAT1-P1-1228F/SAT-2B208R	Date sequence last updated: 13/09/2004
No. of Nt determined: 663	Total no. of comparisons: 209
No. of ambiguities: 0	Min. no. of nt for comparison: 300
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/2/2003**	ZIM03-02	663	663	0	100	0
2	SAT1/ZIM/13/2003	ZIM03-13	663	663	0	100	0
3	SAT1/ZIM/20/2003	ZIM03-20	663	663	0	100	0
4	SAT1/ZIM/21/2003	ZIM03-21	663	663	0	100	0
5	SAT1/ZIM/5/2003**	ZIM03-05	660	658	3	99.7	0.3
6	SAT1/ZIM/P1/2004 (E45)***	ZIM04-BK	663	651	0	98.19	1.81
7	SAT1/ZIM/P1/2004 (D19)***	ZIM04-BD	661	649	2	98.18	1.82
8	SAT1/ZIM/P1/2004 (C10)***	ZIM04-AN	660	648	3	98.18	1.82
9	SAT1/ BOT/P3/98 (buffalo 25)	BOW98-14	376	329	5	87.5	12.5
10	SAT1/ZIM/P45/91 (buffalo MT6)	ZIM91B72	392	342	5	87.24	12.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/SA/13/61 AY593842	SAR61-13	663	581	0	87.63	12.37
2	SAT1/SA/2/58 AY593841	SAR58-02	663	580	0	87.48	12.52
3	SAT1/SWA/1/49 AY593840	SWA49-01	663	577	0	87.03	12.97
4	SAT1/SWA/40/61 AY593843	SWA61-40	663	566	0	85.37	14.63
5	SAT1/BOT/1/68 Z98203	BOT68-B1	663	566	0	85.37	14.63
6	SAT1/BEC/1/48 AY593838	BEC48-01	663	562	0	84.77	15.23
7	SAT1/RHO/5/66 AY593846	RHO66-05	663	500	0	75.41	24.59
8	SAT1/SAR/9/81	SAR81-09	629	469	11	74.56	25.44
9	SAT1/RV/11/37 AY593839	RHO37-11	663	491	0	74.06	25.94
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	447	0	67.42	32.58

nt, nucleotides

*, not a WRLFMD reference number

** , this sample also contained FMDV SAT2

***, isolated from carrier cattle

Serotype: SAT1
WRL Ref No: ZIM/5/2003
Date collected: not known
Date received: 17/05/2004
Species: not known
Material used: IRPI2 BTY1
Region sequenced: VP1
RT-PCR primers: SAT1U-OS/SAT-2B208R; SAT1-P1-1228F/SAT-2B208R; SAT2-P1-1223F/SAT-2B208R
No. of Nt determined: 663
No. of ambiguities: 0
Gene length: 663

Report date: 15/11/2004
Topotype: Western Zimbabwe (WZ)
Genotype/strain: none designated
Sequence filename: ZIM03-05.SEQ
Date sequence last updated: 15/11/2004
Total no. of comparisons: 209
Min. no. of nt for comparison: 300

Comments: This sample also contained FMDV SAT2

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/ZIM/4/2003	ZIM03-04	663	661	0	99.7	0.3
2	SAT1/ZIM/13/2003	ZIM03-13	663	661	0	99.7	0.3
3	SAT1/ZIM/20/2003	ZIM03-20	663	661	0	99.7	0.3
4	SAT1/ZIM/21/2003	ZIM03-21	663	661	0	99.7	0.3
5	SAT1/ZIM/2/2003**	ZIM03-02	663	661	0	99.7	0.3
6	SAT1/ZIM/P1/2004 (D19)***	ZIM04-BD	661	650	2	98.34	1.66
7	SAT1/ZIM/P1/2004 (C10)***	ZIM04-AN	660	649	3	98.33	1.67
8	SAT1/ZIM/P1/2004 (E45)***	ZIM04-BK	663	651	0	98.19	1.81
9	SAT1/ BOT/P3/98 (buffalo 25)	BOW98-14	376	329	5	87.5	12.5
10	SAT1/ZIM/P45/91 (buffalo MT6)	ZIM91B72	392	342	5	87.24	12.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/SA/13/61 AY593842	SAR61-13	663	583	0	87.93	12.07
2	SAT1/SA/2/58 AY593841	SAR58-02	663	582	0	87.78	12.22
3	SAT1/SWA/1/49 AY593840	SWA49-01	663	579	0	87.33	12.67
4	SAT1/SWA/40/61 AY593843	SWA61-40	663	568	0	85.67	14.33
5	SAT1/BOT/1/68 Z98203	BOT68-B1	663	567	0	85.52	14.48
6	SAT1/BEC/1/48 AY593838	BEC48-01	663	563	0	84.92	15.08
7	SAT1/RHO/5/66 AY593846	RHO66-05	663	502	0	75.72	24.28
8	SAT1/SAR/9/81	SAR81-09	629	469	11	74.56	25.44
9	SAT1/RV/11/37 AY593839	RHO37-11	663	493	0	74.36	25.64
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	447	0	67.42	32.58

nt, nucleotides

*, not a WRLFMD reference number

**, this sample also contained FMDV SAT2

***, isolated from carrier cattle

Serotype: SAT1
WRL Ref No: ZIM/13/2003
Date collected: not known
Date received: 17/05/2004
Species: not known
Material used: IRPI2 BTY1
Region sequenced: VP1
RT-PCR primers: SAT1-P1-1228F/SAT-2B208R
No. of Nt determined: 663
No. of ambiguities: 0
Gene length: 663

Report date: 15/11/2004
Topotype: Western Zimbabwe (WZ)
Genotype/strain: none designated
Sequence filename: ZIM03-13.SEQ
Date sequence last updated: 16/09/2004
Total no. of comparisons: 209
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/ZIM/4/2003	ZIM03-04	663	663	0	100	0
2	SAT1/ZIM/20/2003	ZIM03-20	663	663	0	100	0
3	SAT1/ZIM/21/2003	ZIM03-21	663	663	0	100	0
4	SAT1/ZIM/2/2003**	ZIM03-02	663	663	0	100	0
5	SAT1/ZIM/5/2003**	ZIM03-05	663	661	0	99.7	0.3
6	SAT1/ZIM/P1/2004 (E45)***	ZIM04-BK	663	651	0	98.19	1.81
7	SAT1/ZIM/P1/2004 (D19)***	ZIM04-BD	661	649	2	98.18	1.82
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9	SAT1/ BOT/P3/98 (buffalo 25)	BOW98-14	376	329	5	87.5	12.5
10	SAT1/ZIM/P45/91 (buffalo MT6)	ZIM91B72	392	342	5	87.24	12.76

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/SA/13/61 AY593842	SAR61-13	663	581	0	87.63	12.37
2	SAT1/SA/2/58 AY593841	SAR58-02	663	580	0	87.48	12.52
3	SAT1/SWA/1/49 AY593840	SWA49-01	663	577	0	87.03	12.97
4	SAT1/SWA/40/61 AY593843	SWA61-40	663	566	0	85.37	14.63
5	SAT1/BOT/1/68 Z98203	BOT68-B1	663	566	0	85.37	14.63
6	SAT1/BEC/1/48 AY593838	BEC48-01	663	562	0	84.77	15.23
7	SAT1/RHO/5/66 AY593846	RHO66-05	663	500	0	75.41	24.59
8	SAT1/SAR/9/81	SAR81-09	629	469	11	74.56	25.44
9	SAT1/RV/11/37 AY593839	RHO37-11	663	491	0	74.06	25.94
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	447	0	67.42	32.58

nt, nucleotides

*, not a WRLFMD reference number

** , this sample also contained FMDV SAT2

*** , isolated from carrier cattle

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

