

Serotype: SAT2	Report date: 07/12/2004
WRL Ref No: MAL/1/2003	
Date collected: 29/04/2003	
Date received: 17/05/2004	Topotype: none defined
Species: Bovine	Genotype/strain: none designated
Material used: RM2 BTy1	Sequence filename: MAL03-01.SEQ
Region sequenced: VP1	Date sequence last updated: 22/11/2004
RT-PCR primers: SAT2-P1-1223F/SAT-2B208R; SAT2VP3-AB/SAT-2B208R	Total no. of comparisons: 305
No. of Nt determined: 648	Min. no. of nt for comparison: 300
No. of ambiguities: 0	
Gene length: 648	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/MAL/2/2003	MAL03-02	648	647	0	99.85	0.15
2	SAT2/ZIM 12/02/2 (OVI)	ZIM02-AL	474	384	0	81.01	18.99
3	SAT2/ZIM 11/02/2 (OVI)	ZIM02-AK	486	393	0	80.86	19.14
4	SAT2/ZIM 13/02/2 (OVI)	ZIM02-AM	465	376	0	80.86	19.14
5	SAT2/ZIM/P18/91 GN3 buffalo	ZIM91B03	369	298	3	80.76	19.24
6	SAT2/KEN/23/98	KEN98-23	382	307	8	80.37	19.63
7	SAT2/ZIM/14/2002	ZIM02-14	648	520	0	80.25	19.75
8	SAT2/ZIM/12/2002	ZIM02-12	648	520	0	80.25	19.75
9	SAT2/ZIM/13/2002	ZIM02-13	648	519	0	80.09	19.91
10	SAT2/ZIM/15/2002	ZIM02-15	648	519	0	80.09	19.91

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/ZAM/3/81 (OVI)	ZAM81V03	198	163	6	82.32	17.68
2	SAT2/K52/84 (Kenya)	KEN84K52	418	340	0	81.34	18.66
3	SAT2/RSA/106/59 [AY593848]	RSA59--A	648	520	0	80.25	19.75
4	SAT2/RHO/1/48 [AJ251475]	ZAM48A01	648	507	0	78.24	21.76
5	SAT2/ZIM/7/83 [AF136607]	ZIM83A07	648	489	0	75.46	24.54
6	SAT2/ZIM/9/89	ZIM89-09	218	162	1	74.31	25.69
7	SAT2/KEN/11/60 [AY593849]	KEN60--A	648	467	0	72.07	27.93
8	SAT2/KEN/3/57	KEN57-03	648	464	0	71.6	28.4

nt, nucleotides
*, not a WRLFMD reference number

Serotype: SAT2	Report date: 07/12/2004
WRL Ref No: MAL/2/2003	
Date collected: 29/04/2003	
Date received: 17/05/2004	Topotype: none defined
Species: Bovine	Genotype/strain: none designated
Material used: RM2 BTy1	Sequence filename: MAL03-02.SEQ
Region sequenced: VP1	Date sequence last updated: 22/11/2004
RT-PCR primers: SAT2-P1-1223F/SAT-2B208R; SAT2VP3-AB/SAT-2B208R	Total no. of comparisons: 305
No. of Nt determined: 648	Min. no. of nt for comparison: 300
No. of ambiguities: 0	
Gene length: 648	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/MAL/1/2003	MAL03-01	648	647	0	99.85	0.15
2	SAT2/ZIM 12/02/2 (OVI)	ZIM02-AL	474	383	0	80.8	19.2
3	SAT2/ZIM 11/02/2 (OVI)	ZIM02-AK	486	392	0	80.66	19.34
4	SAT2/ZIM 13/02/2 (OVI)	ZIM02-AM	465	375	0	80.65	19.35
5	SAT2/ZIM/P18/91 GN3 buffalo	ZIM91B03	369	297	3	80.49	19.51
6	SAT2/KEN/23/98	KEN98-23	382	306	8	80.1	19.9
7	SAT2/ZIM/14/2002	ZIM02-14	648	519	0	80.09	19.91
8	SAT2/ZIM/12/2002	ZIM02-12	648	519	0	80.09	19.91
9	SAT2/ZIM/13/2002	ZIM02-13	648	518	0	79.94	20.06
10	SAT2/ZIM/15/2002	ZIM02-15	648	518	0	79.94	20.06

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT2/ZAM/3/81 (OVI)	ZAM81V03	198	162	6	81.82	18.18
2	SAT2/K52/84 (Kenya)	KEN84K52	418	339	0	81.1	18.9
3	SAT2/RSA/106/59 [AY593848]	RSA59--A	648	519	0	80.09	19.91
4	SAT2/RHO/1/48 [AJ251475]	ZAM48A01	648	506	0	78.09	21.91
5	SAT2/ZIM/7/83 [AF136607]	ZIM83A07	648	488	0	75.31	24.69
6	SAT2/ZIM/9/89	ZIM89-09	218	161	1	73.85	26.15
7	SAT2/KEN/11/60 [AY593849]	KEN60--A	648	466	0	71.91	28.09
8	SAT2/KEN/3/57	KEN57-03	648	463	0	71.45	28.55

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV SAT 2 isolates received from the Botswana Vaccine Institute during 2004

