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|--|--|
| Serotype: SAT1 | Report date: 02/02/2005 |
| WRL Ref No: ZAM/27/2004 | |
| Date collected: 15-16/12/2004 | |
| Date received by WRLFMD: 10/01/2005 | |
| Date received for sequencing: 17/01/2005 | Topotype: Northwest Zimbabwe (NWZ) |
| Species: Cattle | Genotype/strain: none designated |
| Material used: IRPI2 RS1 | Sequence filename: ZAM04-27.SEQ |
| Region sequenced: VP1 | Date sequence last updated: 02/02/2005 |
| RT-PCR primers: SAT1U-OS/SAT-2B208R; SAT1-1C559F/SAT-2B208R | Total no. of comparisons: 215 |
| No. of Nt determined: 663 | Min. no. of nt for comparison: 300 |
| No. of ambiguities: 0 | Total turn-around time: 23 days |
| Gene length: 663 | Sequencing time: 16 days |

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/ZAM/30/2004 | ZAM04-30 | 663 | 660 | 0 | 99.55 | 0.45 |
| 2 | SAT1/ZAM/29/2004 | ZAM04-29 | 663 | 659 | 0 | 99.4 | 0.6 |
| 3 | SAT1/ZAM/28/2004 | ZAM04-28 | 663 | 659 | 0 | 99.4 | 0.6 |
| 4 | SAT1/ZAM/14/2004 | ZAM04-14 | 662 | 658 | 1 | 99.4 | 0.6 |
| 5 | SAT1/ZAM/2/2004 | ZAM04-02 | 662 | 658 | 1 | 99.4 | 0.6 |
| 6 | SAT1/ZAM/6/2004 | ZAM04-06 | 662 | 658 | 1 | 99.4 | 0.6 |
| 7 | SAT1/ZAM/7/2004 | ZAM04-07 | 662 | 658 | 1 | 99.4 | 0.6 |
| 8 | SAT1/ZAM/8/2004 | ZAM04-08 | 662 | 658 | 1 | 99.4 | 0.6 |
| 9 | SAT1/ZAM/10/2004 | ZAM04-10 | 662 | 658 | 1 | 99.4 | 0.6 |
| 10 | SAT1/ZAM/11/2004 | ZAM04-11 | 662 | 658 | 1 | 99.4 | 0.6 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/RV/11/37 AY593839 | RHO37-11 | 663 | 522 | 0 | 78.73 | 21.27 |
| 2 | SAT1/SAR/9/81 | SAR81-09 | 629 | 480 | 11 | 76.31 | 23.69 |
| 3 | SAT1/RHO/5/66 AY593846 | RHO66-05 | 663 | 505 | 0 | 76.17 | 23.83 |
| 4 | SAT1/SWA/40/61 AY593843 | SWA61-40 | 663 | 497 | 0 | 74.96 | 25.04 |
| 5 | SAT1/SA/13/61 AY593842 | SAR61-13 | 663 | 495 | 0 | 74.66 | 25.34 |
| 6 | SAT1/SA/2/58 AY593841 | SAR58-02 | 663 | 493 | 0 | 74.36 | 25.64 |
| 7 | SAT1/SWA/1/49 AY593840 | SWA49-01 | 663 | 491 | 0 | 74.06 | 25.94 |
| 8 | SAT1/BOT/1/68 [Z98203] | BOT68-B1 | 663 | 489 | 0 | 73.76 | 26.24 |
| 9 | SAT1/BEC/1/48 AY593838 | BEC48-01 | 663 | 488 | 0 | 73.6 | 26.4 |
| 10 | SAT1/ISR/4/62 AY593844 | ISR62-04 | 663 | 455 | 0 | 68.63 | 31.37 |

nt, nucleotides

*, not a WRLFMD reference number

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|--|--|
| Serotype: SAT1 | Report date: 02/02/2005 |
| WRL Ref No: ZAM/28/2004 | |
| Date collected: 15-16/12/2004 | |
| Date received by WRLFMD: 10/01/2005 | |
| Date received for sequencing: 17/01/2005 | Topotype: Northwest Zimbabwe (NWZ) |
| Species: Cattle | Genotype/strain: none designated |
| Material used: BTy1 | Sequence filename: ZAM04-28.SEQ |
| Region sequenced: VP1 | Date sequence last updated: 02/02/2005 |
| RT-PCR primers: SAT1U-OS/SAT-2B208R; SAT1-1C559F/SAT-2B208R | Total no. of comparisons: 215 |
| No. of Nt determined: 663 | Min. no. of nt for comparison: 300 |
| No. of ambiguities: 0 | Total turn-around time: 23 days |
| Gene length: 663 | Sequencing time: 16 days |

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/ZAM/29/2004 | ZAM04-29 | 663 | 661 | 0 | 99.7 | 0.3 |
| 2 | SAT1/ZAM/30/2004 | ZAM04-30 | 663 | 660 | 0 | 99.55 | 0.45 |
| 3 | SAT1/ZAM/27/2004 | ZAM04-27 | 663 | 659 | 0 | 99.4 | 0.6 |
| 4 | SAT1/ZAM/14/2004 | ZAM04-14 | 662 | 658 | 1 | 99.4 | 0.6 |
| 5 | SAT1/ZAM/2/2004 | ZAM04-02 | 662 | 658 | 1 | 99.4 | 0.6 |
| 6 | SAT1/ZAM/6/2004 | ZAM04-06 | 662 | 658 | 1 | 99.4 | 0.6 |
| 7 | SAT1/ZAM/7/2004 | ZAM04-07 | 662 | 658 | 1 | 99.4 | 0.6 |
| 8 | SAT1/ZAM/8/2004 | ZAM04-08 | 662 | 658 | 1 | 99.4 | 0.6 |
| 9 | SAT1/ZAM/10/2004 | ZAM04-10 | 662 | 658 | 1 | 99.4 | 0.6 |
| 10 | SAT1/ZAM/11/2004 | ZAM04-11 | 662 | 658 | 1 | 99.4 | 0.6 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|--------------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/RV/11/37 AY593839 | RHO37-11 | 663 | 523 | 0 | 78.88 | 21.12 |
| 2 | SAT1/SAR/9/81 SAT1/RHO/5/66 | SAR81-09 | 629 | 481 | 11 | 76.47 | 23.53 |
| 3 | AY593846 | RHO66-05 | 663 | 505 | 0 | 76.17 | 23.83 |
| 4 | SAT1/SWA/40/61 AY593843 | SWA61-40 | 663 | 496 | 0 | 74.81 | 25.19 |
| 5 | SAT1/SA/13/61 AY593842 | SAR61-13 | 663 | 494 | 0 | 74.51 | 25.49 |
| 6 | SAT1/SA/2/58 AY593841 | SAR58-02 | 663 | 491 | 0 | 74.06 | 25.94 |
| 7 | SAT1/SWA/1/49 AY593840 | SWA49-01 | 663 | 489 | 0 | 73.76 | 26.24 |
| 8 | SAT1/BOT/1/68 [Z98203] | BOT68-B1 | 663 | 488 | 0 | 73.6 | 26.4 |
| 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

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|---|--|
| Serotype: SAT1 | Report date: 02/02/2005 |
| WRL Ref No: ZAM/29/2004 | |
| Date collected: 15-16/12/2004 | |
| Date received by WRLFMD: 10/01/2005 | |
| Date received for sequencing: 17/01/2005 | Topotype: Northwest Zimbabwe (NWZ) |
| Species: Cattle | Genotype/strain: none designated |
| Material used: IRPI2 RS1 | Sequence filename: ZAM04-29.SEQ |
| Region sequenced: VP1 | Date sequence last updated: 02/02/2005 |
| RT-PCR primers: SAT1U-OS/SAT-2B208R; SAT1-1C559F/SAT-2B208R | Total no. of comparisons: 215 |
| No. of Nt determined: 663 | Min. no. of nt for comparison: 300 |
| No. of ambiguities: 0 | Total turn-around time: 23 days |
| Gene length: 663 | Sequencing time: 16 days |

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/ZAM/28/2004 | ZAM04-28 | 663 | 661 | 0 | 99.7 | 0.3 |
| 2 | SAT1/ZAM/30/2004 | ZAM04-30 | 663 | 660 | 0 | 99.55 | 0.45 |
| 3 | SAT1/ZAM/27/2004 | ZAM04-27 | 663 | 659 | 0 | 99.4 | 0.6 |
| 4 | SAT1/ZAM/14/2004 | ZAM04-14 | 662 | 658 | 1 | 99.4 | 0.6 |
| 5 | SAT1/ZAM/2/2004 | ZAM04-02 | 662 | 658 | 1 | 99.4 | 0.6 |
| 6 | SAT1/ZAM/6/2004 | ZAM04-06 | 662 | 658 | 1 | 99.4 | 0.6 |
| 7 | SAT1/ZAM/7/2004 | ZAM04-07 | 662 | 658 | 1 | 99.4 | 0.6 |
| 8 | SAT1/ZAM/8/2004 | ZAM04-08 | 662 | 658 | 1 | 99.4 | 0.6 |
| 9 | SAT1/ZAM/10/2004 | ZAM04-10 | 662 | 658 | 1 | 99.4 | 0.6 |
| 10 | SAT1/ZAM/11/2004 | ZAM04-11 | 662 | 658 | 1 | 99.4 | 0.6 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/RV/11/37 AY593839 | RHO37-11 | 663 | 522 | 0 | 78.73 | 21.27 |
| 2 | SAT1/SAR/9/81 | SAR81-09 | 629 | 480 | 11 | 76.31 | 23.69 |
| 3 | SAT1/RHO/5/66 AY593846 | RHO66-05 | 663 | 504 | 0 | 76.02 | 23.98 |
| 4 | SAT1/SWA/40/61 AY593843 | SWA61-40 | 663 | 495 | 0 | 74.66 | 25.34 |
| 5 | SAT1/SA/2/58 AY593841 | SAR58-02 | 663 | 493 | 0 | 74.36 | 25.64 |
| 6 | SAT1/SA/13/61 AY593842 | SAR61-13 | 663 | 493 | 0 | 74.36 | 25.64 |
| 7 | SAT1/SWA/1/49 AY593840 | SWA49-01 | 663 | 489 | 0 | 73.76 | 26.24 |
| 8 | SAT1/BOT/1/68 [Z98203] | BOT68-B1 | 663 | 487 | 0 | 73.45 | 26.55 |
| 9 | SAT1/BEC/1/48 AY593838 | BEC48-01 | 663 | 486 | 0 | 73.3 | 26.7 |
| 10 | SAT1/ISR/4/62 AY593844 | ISR62-04 | 663 | 455 | 0 | 68.63 | 31.37 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: SAT1
WRL Ref No: ZAM/30/2004
Date collected: 15-16/12/2004
Date received by WRLFMD: 10/01/2005
Date received for sequencing: 17/01/2005
Species: Cattle
Material used: IRPI2 RS1
Region sequenced: VP1
RT-PCR primers: SAT1U-OS/SAT-2B208R;
SAT1-1C559F/SAT-2B208R
No. of Nt determined: 663
No. of ambiguities: 0
Gene length: 663

Report date: 02/02/2005
Topotype: Northwest Zimbabwe (NWZ)
Genotype/strain: none designated
Sequence filename: ZAM04-30.SEQ
Date sequence last updated: 02/02/2005
Total no. of comparisons: 215
Min. no. of nt for comparison: 300
Total turn-around time: 23 days
Sequencing time: 16 days

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/ZAM/28/2004 | ZAM04-28 | 663 | 660 | 0 | 99.55 | 0.45 |
| 2 | SAT1/ZAM/29/2004 | ZAM04-29 | 663 | 660 | 0 | 99.55 | 0.45 |
| 3 | SAT1/ZAM/27/2004 | ZAM04-27 | 663 | 660 | 0 | 99.55 | 0.45 |
| 4 | SAT1/ZAM/14/2004 | ZAM04-14 | 662 | 659 | 1 | 99.55 | 0.45 |
| 5 | SAT1/ZAM/2/2004 | ZAM04-02 | 662 | 659 | 1 | 99.55 | 0.45 |
| 6 | SAT1/ZAM/6/2004 | ZAM04-06 | 662 | 659 | 1 | 99.55 | 0.45 |
| 7 | SAT1/ZAM/7/2004 | ZAM04-07 | 662 | 659 | 1 | 99.55 | 0.45 |
| 8 | SAT1/ZAM/8/2004 | ZAM04-08 | 662 | 659 | 1 | 99.55 | 0.45 |
| 9 | SAT1/ZAM/10/2004 | ZAM04-10 | 662 | 659 | 1 | 99.55 | 0.45 |
| 10 | SAT1/ZAM/11/2004 | ZAM04-11 | 662 | 659 | 1 | 99.55 | 0.45 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/RV/11/37 AY593839 | RHO37-11 | 663 | 523 | 0 | 78.88 | 21.12 |
| 2 | SAT1/SAR/9/81 | SAR81-09 | 629 | 482 | 11 | 76.63 | 23.37 |
| 3 | SAT1/RHO/5/66 AY593846 | RHO66-05 | 663 | 506 | 0 | 76.32 | 23.68 |
| 4 | SAT1/SWA/40/61 AY593843 | SWA61-40 | 663 | 496 | 0 | 74.81 | 25.19 |
| 5 | SAT1/SA/13/61 AY593842 | SAR61-13 | 663 | 495 | 0 | 74.66 | 25.34 |
| 6 | SAT1/SA/2/58 AY593841 | SAR58-02 | 663 | 493 | 0 | 74.36 | 25.64 |
| 7 | SAT1/SWA/1/49 AY593840 | SWA49-01 | 663 | 491 | 0 | 74.06 | 25.94 |
| 8 | SAT1/BOT/1/68 [Z98203] | BOT68-B1 | 663 | 489 | 0 | 73.76 | 26.24 |
| 9 | SAT1/BEC/1/48 AY593838 | BEC48-01 | 663 | 488 | 0 | 73.6 | 26.4 |
| 10 | SAT1/ISR/4/62 AY593844 | ISR62-04 | 663 | 457 | 0 | 68.93 | 31.07 |

nt, nucleotides

*, not a WRLFMD reference number

| | |
|--|--|
| Serotype: SAT1 | Report date: 02/02/2005 |
| WRL Ref No: ZAM/31/2004 | |
| Date collected: 15-16/12/2004 | |
| Date received by WRLFMD: 10/01/2005 | |
| Date received for sequencing: 17/01/2005 | Topotype: Northwest Zimbabwe (NWZ) |
| Species: Cattle | Genotype/strain: none designated |
| Material used: IRPI2 RS1 | Sequence filename: ZAM04-31.SEQ |
| Region sequenced: VP1 | Date sequence last updated: 02/02/2005 |
| RT-PCR primers: SAT1U-OS/SAT-2B208R; SAT1-1C559F/SAT-2B208R | Total no. of comparisons: 215 |
| No. of Nt determined: 663 | Min. no. of nt for comparison: 300 |
| No. of ambiguities: 0 | Total turn-around time: 23 days |
| Gene length: 663 | Sequencing time: 16 days |

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/ZAM/32/2004 | ZAM04-32 | 663 | 662 | 0 | 99.85 | 0.15 |
| 2 | SAT1/ZAM/30/2004 | ZAM04-30 | 663 | 658 | 0 | 99.25 | 0.75 |
| 3 | SAT1/ZAM/29/2004 | ZAM04-29 | 663 | 657 | 0 | 99.1 | 0.9 |
| 4 | SAT1/ZAM/28/2004 | ZAM04-28 | 663 | 657 | 0 | 99.1 | 0.9 |
| 5 | SAT1/ZAM/27/2004 | ZAM04-27 | 663 | 657 | 0 | 99.1 | 0.9 |
| 6 | SAT1/ZAM/2/2004 | ZAM04-02 | 662 | 656 | 1 | 99.09 | 0.91 |
| 7 | SAT1/ZAM/14/2004 | ZAM04-14 | 662 | 656 | 1 | 99.09 | 0.91 |
| 8 | SAT1/ZAM/8/2004 | ZAM04-08 | 662 | 656 | 1 | 99.09 | 0.91 |
| 9 | SAT1/ZAM/10/2004 | ZAM04-10 | 662 | 656 | 1 | 99.09 | 0.91 |
| 10 | SAT1/ZAM/11/2004 | ZAM04-11 | 662 | 656 | 1 | 99.09 | 0.91 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/RV/11/37 AY593839 | RHO37-11 | 663 | 525 | 0 | 79.19 | 20.81 |
| 2 | SAT1/SAR/9/81 | SAR81-09 | 629 | 482 | 11 | 76.63 | 23.37 |
| 3 | SAT1/RHO/5/66 AY593846 | RHO66-05 | 663 | 505 | 0 | 76.17 | 23.83 |
| 4 | SAT1/SWA/40/61 AY593843 | SWA61-40 | 663 | 497 | 0 | 74.96 | 25.04 |
| 5 | SAT1/SA/13/61 AY593842 | SAR61-13 | 663 | 495 | 0 | 74.66 | 25.34 |
| 6 | SAT1/SA/2/58 AY593841 | SAR58-02 | 663 | 493 | 0 | 74.36 | 25.64 |
| 7 | SAT1/SWA/1/49 AY593840 | SWA49-01 | 663 | 491 | 0 | 74.06 | 25.94 |
| 8 | SAT1/BOT/1/68 [Z98203] | BOT68-B1 | 663 | 489 | 0 | 73.76 | 26.24 |
| 9 | SAT1/BEC/1/48 AY593838 | BEC48-01 | 663 | 488 | 0 | 73.6 | 26.4 |
| 10 | SAT1/ISR/4/62 AY593844 | ISR62-04 | 663 | 459 | 0 | 69.23 | 30.77 |

nt, nucleotides

*, not a WRLFMD reference number

| | |
|--|--|
| Serotype: SAT1 | Report date: 02/02/2005 |
| WRL Ref No: ZAM/32/2004 | |
| Date collected: 15-16/12/2004 | |
| Date received by WRLFMD: 10/01/2005 | |
| Date received for sequencing: 17/01/2005 | Topotype: Northwest Zimbabwe (NWZ) |
| Species: Cattle | Genotype/strain: none designated |
| Material used: IRPI2 RS1 | Sequence filename: ZAM04-32.SEQ |
| Region sequenced: VP1 | Date sequence last updated: 02/02/2005 |
| RT-PCR primers: SAT1U-OS/SAT-2B208R; SAT1-1C559F/SAT-2B208R | Total no. of comparisons: 215 |
| No. of Nt determined: 663 | Min. no. of nt for comparison: 300 |
| No. of ambiguities: 0 | Total turn-around time: 23 days |
| Gene length: 663 | Sequencing time: 16 days |

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/ZAM/31/2004 | ZAM04-31 | 663 | 662 | 0 | 99.85 | 0.15 |
| 2 | SAT1/ZAM/30/2004 | ZAM04-30 | 663 | 659 | 0 | 99.4 | 0.6 |
| 3 | SAT1/ZAM/29/2004 | ZAM04-29 | 663 | 658 | 0 | 99.25 | 0.75 |
| 4 | SAT1/ZAM/28/2004 | ZAM04-28 | 663 | 658 | 0 | 99.25 | 0.75 |
| 5 | SAT1/ZAM/27/2004 | ZAM04-27 | 663 | 658 | 0 | 99.25 | 0.75 |
| 6 | SAT1/ZAM/2/2004 | ZAM04-02 | 662 | 657 | 1 | 99.24 | 0.76 |
| 7 | SAT1/ZAM/14/2004 | ZAM04-14 | 662 | 657 | 1 | 99.24 | 0.76 |
| 8 | SAT1/ZAM/8/2004 | ZAM04-08 | 662 | 657 | 1 | 99.24 | 0.76 |
| 9 | SAT1/ZAM/10/2004 | ZAM04-10 | 662 | 657 | 1 | 99.24 | 0.76 |
| 10 | SAT1/ZAM/11/2004 | ZAM04-11 | 662 | 657 | 1 | 99.24 | 0.76 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | SAT1/RV/11/37 AY593839 | RHO37-11 | 663 | 524 | 0 | 79.03 | 20.97 |
| 2 | SAT1/SAR/9/81 | SAR81-09 | 629 | 482 | 11 | 76.63 | 23.37 |
| 3 | SAT1/RHO/5/66 AY593846 | RHO66-05 | 663 | 506 | 0 | 76.32 | 23.68 |
| 4 | SAT1/SWA/40/61 AY593843 | SWA61-40 | 663 | 497 | 0 | 74.96 | 25.04 |
| 5 | SAT1/SA/13/61 AY593842 | SAR61-13 | 663 | 495 | 0 | 74.66 | 25.34 |
| 6 | SAT1/SA/2/58 AY593841 | SAR58-02 | 663 | 493 | 0 | 74.36 | 25.64 |
| 7 | SAT1/SWA/1/49 AY593840 | SWA49-01 | 663 | 491 | 0 | 74.06 | 25.94 |
| 8 | SAT1/BOT/1/68 [Z98203] | BOT68-B1 | 663 | 489 | 0 | 73.76 | 26.24 |
| 9 | SAT1/BEC/1/48 AY593838 | BEC48-01 | 663 | 488 | 0 | 73.6 | 26.4 |
| 10 | SAT1/ISR/4/62 AY593844 | ISR62-04 | 663 | 458 | 0 | 69.08 | 30.92 |

nt, nucleotides

*, not a WRLFMD reference number

Report on six **Zambian FMDV SAT 1** isolates received from the Botswana Vaccine Institute on 10/01/2005

