

Serotype: A	Report date: 31/01/2007						
WRL Ref No: ETH/3/2005							
Sender Ref: ETH-03 (11)							
Date collected: not known							
Date received by WRLFMD: 22/12/2005	Topotype: Africa						
Date received for sequencing: 16/01/2006	Genotype/strain: none designated						
Species: Bovine	Sequence filename: ETH05-03.SEQ						
Material used: BTy1	Date sequence last updated: 04/10/2006						
Region sequenced: VP1	Total no. of comparisons: 780						
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 405 days						
No. of ambiguities: 0	Sequencing time: 380 days						
Gene length: 639							
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/4/2005 (2000)	ETH05-04	639	639	0	100	0
2	A/ETH/16/2005 (2000/1)	ETH05-16	639	627	0	98.12	1.88
3	A/ETH/10/2005 (2002)	ETH05-10	639	624	0	97.65	2.35
4	A/ETH/9/2005 (2000)	ETH05-09	639	624	0	97.65	2.35
5	A/ETH/1/94 (EF208766)	ETH94-01	639	618	0	96.71	3.29
6	A/ETH/7/92 (EF208765)	ETH92-07	639	605	0	94.68	5.32
7	A/YEM/2/98	YEM98-02	639	605	0	94.68	5.32
8	A/ETH/23/94 (EF208767)	ETH94-23	639	602	0	94.21	5.79
9	A/KEN/15/98 (EF208774)	KEN98-15	639	585	0	91.55	8.45
10	A/KEN/16/98A (EF208775)	KEN98A16	639	585	0	91.55	8.45
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	634	514	2	81.07	18.93
2	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	518	0	81.06	18.94
3	A/TAI/2/97 (EF208778)	TAI97-02	636	514	0	80.82	19.18
4	A/IRN/1/96 (EF208771)	IRN96-01	638	514	1	80.56	19.44
5	A/SAU/41/91	SAU91-41	636	511	0	80.35	19.65
6	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	513	0	80.28	19.72
7	A/TAI/118/87* (EF208777)	TAI87-AD	636	504	0	79.25	20.75
8	A/IND/7/82 (1980)	IND82-07	639	503	0	78.72	21.28
9	A/SAU/23/86	SAU86-23	639	501	0	78.4	21.6
10	A/IRN/22/99 (EF208772)	IRN99-22	636	494	0	77.67	22.33
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: A
WRL Ref No: ETH/4/2005
Sender Ref: ETH-04 (13)
Date collected: 11/12/2000
Date received by WRLFMD: 22/12/2005
Date received for sequencing: 16/01/2006
Species: Bovine
Material used: BTy2
Region sequenced: VP1
RT-PCR primers: A-1C562F/EUR-2B52R;
A-1C612F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 31/01/2007
Topotype: Africa
Genotype/strain: none designated
Sequence filename: ETH05-04.SEQ
Date sequence last updated: 04/10/2006
Total no. of comparisons: 780
Min. no. of nt for comparison: 300
Total turn-around time: 405 days
Sequencing time: 380 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/3/2005 (year nk)	ETH05-03	639	639	0	100	0
2	A/ETH/16/2005 (2000/1)	ETH05-16	639	627	0	98.12	1.88
3	A/ETH/10/2005 (2002)	ETH05-10	639	624	0	97.65	2.35
4	A/ETH/9/2005 (2000)	ETH05-09	639	624	0	97.65	2.35
5	A/ETH/1/94 (EF208766)	ETH94-01	639	618	0	96.71	3.29
6	A/ETH/7/92 (EF208765)	ETH92-07	639	605	0	94.68	5.32
7	A/YEM/2/98	YEM98-02	639	605	0	94.68	5.32
8	A/ETH/23/94 (EF208767)	ETH94-23	639	602	0	94.21	5.79
9	A/KEN/15/98 (EF208774)	KEN98-15	639	585	0	91.55	8.45
10	A/KEN/16/98A (EF208775)	KEN98A16	639	585	0	91.55	8.45

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	634	514	2	81.07	18.93
2	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	518	0	81.06	18.94
3	A/TAI/2/97 (EF208778)	TAI97-02	636	514	0	80.82	19.18
4	A/IRN/1/96 (EF208771)	IRN96-01	638	514	1	80.56	19.44
5	A/SAU/41/91	SAU91-41	636	511	0	80.35	19.65
6	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	513	0	80.28	19.72
7	A/TAI/118/87* (EF208777)	TAI87-AD	636	504	0	79.25	20.75
8	A/IND/7/82 (1980)	IND82-07	639	503	0	78.72	21.28
9	A/SAU/23/86	SAU86-23	639	501	0	78.4	21.6
10	A/IRN/22/99 (EF208772)	IRN99-22	636	494	0	77.67	22.33

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A	Report date: 31/01/2007						
WRL Ref No: ETH/9/2005							
Sender Ref: ETH-09 (18)							
Date collected: 27/12/2000							
Date received by WRLFMD: 22/12/2005	Topotype: Africa						
Date received for sequencing: 16/01/2006	Genotype/strain: none designated						
Species: Bovine	Sequence filename: ETH05-09.SEQ						
Material used: BTy1	Date sequence last updated: 04/10/2006						
Region sequenced: VP1	Total no. of comparisons: 780						
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 405 days						
No. of ambiguities: 0	Sequencing time: 380 days						
Gene length: 639							
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/10/2005 (2002)	ETH05-10	639	639	0	100	0
2	A/ETH/16/2005 (2000/1)	ETH05-16	639	632	0	98.9	1.1
3	A/ETH/3/2005 (year nk)	ETH05-03	639	624	0	97.65	2.35
4	A/ETH/4/2005 (2000)	ETH05-04	639	624	0	97.65	2.35
5	A/ETH/1/94 (EF208766)	ETH94-01	639	611	0	95.62	4.38
6	A/ETH/7/92 (EF208765)	ETH92-07	639	600	0	93.9	6.1
7	A/YEM/2/98	YEM98-02	639	598	0	93.58	6.42
8	A/ETH/23/94 (EF208767)	ETH94-23	639	596	0	93.27	6.73
9	A/KEN/15/98 (EF208774)	KEN98-15	639	581	0	90.92	9.08
10	A/KEN/16/98A (EF208775)	KEN98A16	639	581	0	90.92	9.08
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	634	511	2	80.6	19.4
2	A/IRN/1/96 (EF208771)	IRN96-01	638	513	1	80.41	19.59
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	512	0	80.13	19.87
4	A/TAI/2/97 (EF208778)	TAI97-02	636	508	0	79.87	20.13
5	A/SAU/41/91	SAU91-41	636	506	0	79.56	20.44
6	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	506	0	79.19	20.81
7	A/TAI/118/87* (EF208777)	TAI87-AD	636	502	0	78.93	21.07
8	A/IND/7/82 (1980)	IND82-07	639	501	0	78.4	21.6
9	A/SAU/23/86	SAU86-23	639	497	0	77.78	22.22
10	A/IRN/22/99 (EF208772)	IRN99-22	636	490	0	77.04	22.96
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: A
WRL Ref No: ETH/10/2005
Sender Ref: ETH-10 (44)
Date collected: 11/01/2002
Date received by WRLFMD: 22/12/2005
Date received for sequencing: 16/01/2006
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: A-1C562F/EUR-2B52R;
A-1C612F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 31/01/2007
Topotype: Africa
Genotype/strain: none designated
Sequence filename: ETH05-10.SEQ
Date sequence last updated: 04/10/2006
Total no. of comparisons: 780
Min. no. of nt for comparison: 300
Total turn-around time: 405 days
Sequencing time: 380 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/9/2005 (2000)	ETH05-09	639	639	0	100	0
2	A/ETH/16/2005 (2000/1)	ETH05-16	639	632	0	98.9	1.1
3	A/ETH/3/2005 (year nk)	ETH05-03	639	624	0	97.65	2.35
4	A/ETH/4/2005 (2000)	ETH05-04	639	624	0	97.65	2.35
5	A/ETH/1/94 (EF208766)	ETH94-01	639	611	0	95.62	4.38
6	A/ETH/7/92 (EF208765)	ETH92-07	639	600	0	93.9	6.1
7	A/YEM/2/98	YEM98-02	639	598	0	93.58	6.42
8	A/ETH/23/94 (EF208767)	ETH94-23	639	596	0	93.27	6.73
9	A/KEN/15/98 (EF208774)	KEN98-15	639	581	0	90.92	9.08
10	A/KEN/16/98A (EF208775)	KEN98A16	639	581	0	90.92	9.08

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	634	511	2	80.6	19.4
2	A/IRN/1/96 (EF208771)	IRN96-01	638	513	1	80.41	19.59
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	512	0	80.13	19.87
4	A/TAI/2/97 (EF208778)	TAI97-02	636	508	0	79.87	20.13
5	A/SAU/41/91	SAU91-41	636	506	0	79.56	20.44
6	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	506	0	79.19	20.81
7	A/TAI/118/87* (EF208777)	TAI87-AD	636	502	0	78.93	21.07
8	A/IND/7/82 (1980)	IND82-07	639	501	0	78.4	21.6
9	A/SAU/23/86	SAU86-23	639	497	0	77.78	22.22
10	A/IRN/22/99 (EF208772)	IRN99-22	636	490	0	77.04	22.96

nt, nucleotides
*, not a WRLFMD reference number

Serotype: A			Report date: 31/01/2007				
WRL Ref No: ETH/13/2005							
Sender Ref: ETH-13 (A110)							
Date collected: 1981							
Date received by WRLFMD: 22/12/2005			Topotype: Africa				
Date received for sequencing: 16/01/2006			Genotype/strain: none designated				
Species: Bovine			Sequence filename: ETH05-13.SEQ				
Material used: BTy1			Date sequence last updated: 09/04/2006				
Region sequenced: VP1			Total no. of comparisons: 780				
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R			Min. no. of nt for comparison: 300				
No. of Nt determined: 639			Total turn-around time: 405 days				
No. of ambiguities: 0			Sequencing time: 380 days				
Gene length: 639							
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/14/2005 (1981)	ETH05-14	639	639	0	100	0
2	A/ETH/2/79	ETH79-02	639	635	0	99.37	0.63
3	A/YEM/7/85	YEM85-07	639	590	0	92.33	7.67
4	A/YEM/2/85	YEM85-02	639	588	0	92.02	7.98
5	A/EGY/1/72 (EF208756)	EGY72-01	639	587	0	91.86	8.14
6	A21/KEN/3/64	KEN64-03	639	552	0	86.38	13.62
7	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	552	0	86.38	13.62
8	A/SUD/1/81	SUD81-01	639	548	0	85.76	14.24
9	A/TAN/3/68 (T809/67)	TAN68-03	639	544	0	85.13	14.87
10	A/GHA/16/73	GHA73-16	636	541	0	85.06	14.94
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	519	0	81.22	18.78
2	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	516	0	80.75	19.25
3	A/IND/7/82 (1980)	IND82-07	639	510	0	79.81	20.19
4	A/IRN/1/96 (EF208771)	IRN96-01	638	503	1	78.84	21.16
5	A/SAU/41/91	SAU91-41	636	500	0	78.62	21.38
6	A/TAI/118/87* (EF208777)	TAI87-AD	636	499	0	78.46	21.54
7	A/TAI/2/97 (EF208778)	TAI97-02	636	499	0	78.46	21.54
8	A/IRN/87	IRN87--M	634	496	2	78.23	21.77
9	A/IRN/22/99 (EF208772)	IRN99-22	636	493	0	77.52	22.48
10	A/SAU/23/86	SAU86-23	639	491	0	76.84	23.16
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: A Report date: 31/01/2007
WRL Ref No: ETH/14/2005
Sender Ref: ETH-14 (A110)
Date collected: 1981
Date received by WRLFMD: 22/12/2005 Topotype: Africa
Date received for sequencing: 16/01/2006 Genotype/strain: none designated
Species: Bovine Sequence filename: ETH05-14.SEQ
Material used: BTy1 Date sequence last updated: 15/05/2006
Region sequenced: VP1 Total no. of comparisons: 780
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 405 days
No. of ambiguities: 0 Sequencing time: 380 days
Gene length: 639

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/13/2005 (1981)	ETH05-13	639	639	0	100	0
2	A/ETH/2/79	ETH79-02	639	635	0	99.37	0.63
3	A/YEM/7/85	YEM85-07	639	590	0	92.33	7.67
4	A/YEM/2/85	YEM85-02	639	588	0	92.02	7.98
5	A/EGY/1/72 (EF208756)	EGY72-01	639	587	0	91.86	8.14
6	A21/KEN/3/64	KEN64-03	639	552	0	86.38	13.62
7	A21/Lumbwa/KEN/64 (AY593761)	KEN64-AA	639	552	0	86.38	13.62
8	A/SUD/1/81	SUD81-01	639	548	0	85.76	14.24
9	A/TAN/3/68 (T809/67)	TAN68-03	639	544	0	85.13	14.87
10	A/GHA/16/73	GHA73-16	636	541	0	85.06	14.94

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	519	0	81.22	18.78
2	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	516	0	80.75	19.25
3	A/IND/7/82 (1980)	IND82-07	639	510	0	79.81	20.19
4	A/IRN/1/96 (EF208771)	IRN96-01	638	503	1	78.84	21.16
5	A/SAU/41/91	SAU91-41	636	500	0	78.62	21.38
6	A/TAI/118/87* (EF208777)	TAI87-AD	636	499	0	78.46	21.54
7	A/TAI/2/97 (EF208778)	TAI97-02	636	499	0	78.46	21.54
8	A/IRN/87	IRN87--M	634	496	2	78.23	21.77
9	A/IRN/22/99 (EF208772)	IRN99-22	636	493	0	77.52	22.48
10	A/SAU/23/86	SAU86-23	639	491	0	76.84	23.16

nt, nucleotides
*, not a WRLFMD reference number

Serotype: A	Report date: 31/01/2007						
WRL Ref No: ETH/16/2005							
Sender Ref: ETH-16 (95)							
Date collected: 2000/2001							
Date received by WRLFMD: 22/12/2005	Topotype: Africa						
Date received for sequencing: 16/01/2006	Genotype/strain: none designated						
Species: Bovine	Sequence filename: ETH05-16.SEQ						
Material used: BTy2	Date sequence last updated: 06/10/2006						
Region sequenced: VP1	Total no. of comparisons: 780						
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 405 days						
No. of ambiguities: 0	Sequencing time: 380 days						
Gene length: 639							
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/ETH/10/2005 (2002)	ETH05-10	639	632	0	98.9	1.1
2	A/ETH/9/2005 (2000)	ETH05-09	639	632	0	98.9	1.1
3	A/ETH/3/2005 (year nk)	ETH05-03	639	627	0	98.12	1.88
4	A/ETH/4/2005 (2000)	ETH05-04	639	627	0	98.12	1.88
5	A/ETH/1/94 (EF208766)	ETH94-01	639	614	0	96.09	3.91
6	A/ETH/7/92 (EF208765)	ETH92-07	639	603	0	94.37	5.63
7	A/ETH/23/94 (EF208767)	ETH94-23	639	601	0	94.05	5.95
8	A/YEM/2/98	YEM98-02	639	601	0	94.05	5.95
9	A/KEN/15/98 (EF208774)	KEN98-15	639	584	0	91.39	8.61
10	A/KEN/16/98A (EF208775)	KEN98A16	639	584	0	91.39	8.61
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	634	512	2	80.76	19.24
2	A/IRN/1/96 (EF208771)	IRN96-01	638	514	1	80.56	19.44
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	513	0	80.28	19.72
4	A/TAI/2/97 (EF208778)	TAI97-02	636	509	0	80.03	19.97
5	A/SAU/41/91	SAU91-41	636	507	0	79.72	20.28
6	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	509	0	79.66	20.34
7	A/TAI/118/87* (EF208777)	TAI87-AD	636	503	0	79.09	20.91
8	A/IND/7/82 (1980)	IND82-07	639	502	0	78.56	21.44
9	A/SAU/23/86	SAU86-23	639	496	0	77.62	22.38
10	A/IRN/22/99 (EF208772)	IRN99-22	636	493	0	77.52	22.48
nt, nucleotides							
*, not a WRLFMD reference number							

Report on FMDV type A received from Ethiopia in 2005

