

SUMMARY REPORT

**on the samples submitted by Egypt to the WRL for FMD (Pirbright Institute, UK) in 2012
&
results of the tests thereof**

Information extracted from:

The *4 Quarterly OIE/FAO FMD Reference Laboratory Reports for 2012*
(available at http://www.wrlfmd.org/ref_labs/fmd_ref_lab_reports.htm)

The *2012 Molecular Epidemiology Report* , section related to Egypt
(available at http://www.wrlfmd.org/fmd_genotyping/2012.htm)

A. SUMMARY OF WORKS RELATED TO VACCINE MATCHING

Table A1: Antigenic characterisation of FMD field isolates by matching with vaccine strains by 2dmVNT throughout 2012 (January-December 2012)

Period	FMD field isolate		Vaccine matching results	
	FMD type	WRL Sample Ref	Vaccine strain against which matching was carried out	Vaccine matching results
1 Jan-31 Mar 2012	SAT 2	Sat2 Egy 6/2012	Sat2 Eri	M
			Sat2 Zim	N
		Sat2 Egy 9/2012	Sat2 Eri	M
			Sat2 Zim	N
1 April-30 June 2012	O	EGY 10/2011	O 4625	M
			O Manisa	N
			O Tur 5/09	M
		EGY 6/2011	O 4625	M
			O Manisa	M
			O Tur 5/09	M
	A	EGY 1/2012	A Eri 98	N
			A IRN 87	N
			A Iran 2005	N
			A SAU 95	N
			A TUR 06	M
	A22 IRQ		N	
	SAT 2	EGY 2/2012	SAT2 Eritrea	M
			SAT2 ZIM 7/83	N
1 Oct -31 Dec 2012	O	O EGY 19/12	O 4625	N
			O Manisa	N
			O Tur 5/09	N
			O Campos	N
		O EGY 27/12	O 4625	N
			O Manisa	N
			O Tur 5/09	N
			O Campos	N
	A	EGY 18/2012	A Eritrea	M
			A Iran 2005	N
			A SAU 95	N
			A TUR 06	M
			A22	N
		EGY 30/2012	A Eritrea	M
A Iran 2005	N			
A SAU 95	N			
A TUR 06	M			
A22	N			

In the case of VNT:

M: $r1 = > 0.3$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

N: $r1 = < 0.3$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

Table A2 : Summary of virus isolation results and vaccine matching carried out in samples /field isolates from Egypt (January-December 2012)

FMD type	Total number of Virus Isolation in cell culture /ELISA positive samples	Number of field isolates for which vaccine matching was carried out
O	7	4
A	11	3
C	-	-
SAT 1	-	-
SAT 2	18	3
SAT 3	-	-
Asia 1	-	-

B : INFORMATION INCLUDED IN THE SEMESTRIAL REPORTS FOR 2012 (SAMPLES SUBMITTED BY EGYPT)

PERIOD : JANUARY –MARCH 2012

FMD **type A** was detected in samples collected in 2010 and 2011. Genotyping showed these to belong to the ASIA toptotype, Iran-05BAR-08 sublineage. A virus isolated from single sample collected in 2012 belonged to the AFRICA toptotype, sublineage G-IVISM-12. This was found to be most closely related to viruses from Sudan and Eritrea suggesting yet another recent introduction of FMDV from sub-Saharan Africa.

FMD **type O** viruses were isolated from three samples collected in 2011 and were genotyped as O/ME-SA/PanAsia-2. They were most closely related to a virus from Egypt in 2010.

Between 18/02/2012 and 26/03/2012, 43 outbreaks of FMD **type SAT 2** were reported in Egypt affecting the governorates of Al Sharqia (Ash Sharqiyah), Alexandria (Al Iskandariyah), Beheira (Al Buhayrah), Dakahlia (Ad Daqahliyah), Damietta (Dumyat), Gharbia (Al Gharbiyah), Ismailia (Al Isma'Iliyah), Kafr el-Sheikh (Kafr Ash Shaykh), Luxor (Luxor), Minya (Al Minya), Monufia (Al Minufiyah), New Valley (Al Wadi Al Jadid), Qalyubia (Al Qalyubiyah), Sohag (Suhaj). This is the first known occurrence of this serotype in Egypt since 1950.

TABLE A: Clinical sample diagnostics made by the WRL between January-March 2012 (Egypt)

Sample Identification	Animal	Date of Collection	Results		
			VI/ELISA	RT-PCR	Final report
EGY 1/2010	NOT KNOWN	14-Oct-10	A	POS	A
EGY 2/2010	NOT KNOWN	15-Oct-10	A	POS	A
EGY 3/2010	NOT KNOWN	15-Oct-10	A	POS	A
EGY 1/2011	NOT KNOWN	06-Jan-11	NOT TESTED	POS	FMDV GD
EGY 2/2011	NOT KNOWN	09-Jan-11	A	POS	A
EGY 3/2011	NOT KNOWN	13-Feb-11	NEG	POS	FMDV GD
EGY 4/2011	NOT KNOWN	21-Feb-11	NEG	POS	FMDV GD
EGY 5/2011	NOT KNOWN	11-Apr-11	A	POS	A
EGY 6/2011	NOT KNOWN	21-Apr-11	O	POS	O
EGY 7/2011	NOT KNOWN	21-Apr-11	O	POS	O
EGY 8/2011	NOT KNOWN	19-May-11	A	POS	A
EGY 9/2011	NOT KNOWN	14-Jun-11	A	POS	A
EGY 10/2011	NOT KNOWN	13-Jul-11	O	POS	O
EGY 1/2012	NOT KNOWN	08-Feb-12	A	POS	A
EGY 2/2012	NOT KNOWN	17-Feb-12	SAT 2	POS	SAT 2
EGY 3/2012	NOT KNOWN	18-Feb-12	SAT 2	POS	SAT 2
EGY 4/2012	NOT KNOWN	27-Feb-12	SAT 2	POS	SAT 2
EGY 5/2012	NOT KNOWN	27-Feb-12	SAT 2	POS	SAT 2
EGY 6/2012	NOT KNOWN	27-Feb-12	SAT 2	POS	SAT 2
EGY 7/2012	NOT KNOWN	28-Feb-12	NOT TESTED	POS	FMDV GD
EGY 8/2012	NOT KNOWN	29-Feb-12	NOT TESTED	POS	FMDV GD
EGY 9/2012	NOT KNOWN	29-Feb-12	SAT 2	POS	SAT 2
EGY 10/2012	NOT KNOWN	29-Feb-12	SAT 2	POS	SAT 2
EGY 11/2012	NOT KNOWN	29-Feb-12	SAT 2	POS	SAT 2
EGY 12/2012	NOT KNOWN	29-Feb-12	NOT TESTED	NEG	NVD
EGY 13/2012	NOT KNOWN	01-Mar-12	SAT 2	POS	SAT 2
EGY 14/2012	NOT KNOWN	03-Mar-12	SAT 2	POS	SAT 2
EGY 15/2012	NOT KNOWN	04-Mar-12	SAT 2	POS	SAT 2

FMD(V) foot-and-mouth
disease (virus) GD genome detected
VI/ELISA FMDV serotype identified following virus isolation in cell culture and antigen ELISA
RT-PCR reverse transcription polymerase chain reaction on epithelial suspension for FMD (or SVD)
 viral genome
NVD no foot-and-mouth disease, swine vesicular disease or vesicular stomatitis virus detected

TABLE B: Summary of samples collected and received to IAH-Pirbright (Egypt, January-March 2012)

Country	No. of samples	Virus isolation in cell culture/ELISA							RT-PCR for FMDV (or SVDV) (where appropriate)		
		FMD virus serotypes							NVD	Positive	Negative
		O	A	C	SAT 1	SAT 2	SAT 3	Asia 1			
EGYPT	28	3	8	-	-	11	-	-	2	27	1

VI/ELISA FMD (or SVD) virus serotype identified following virus isolation in cell culture and antigen detection ELISA

FMD foot-and-mouth disease

SVD swine vesicular disease

NVD no FMD, SVD or vesicular stomatitis virus detected

NT not tested

RT-PCR reverse transcription polymerase chain reaction for FMD (or SVD) viral genome

Vaccine matching

Two SAT2 viruses from Egypt both gave a close match with SAT 2 Eritrea vaccine strain but also a poor to no match with SAT 2 Zim (Table C).

TABLE C: Antigenic characterisation of FMD field isolates by matching with vaccine strains by VNT from 1st JANUARY to 31st MARCH 2012 (Egypt)

Type SAT 2: Vaccine matching studies for type SAT2 FMDV by VNT-WRL FMD		
WRL Sample Ref	Sat2 Eri	Sat2 Zim
Sat2 Egy 6/2012	M	N
Sat2 Egy 9/2012	M	N

In the case of VNT:

M: $r_1 = > 0.3$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

N: $r_1 = < 0.3$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect

PERIOD : APRIL-JUNE 2012

During April and May 2012, six additional outbreaks of FMD **type SAT 2** were reported in four Egyptian governorates: Damietta (2), Matrouh (2), Sohag (1) and Suez (1). No genotyping information is available (*no clinical samples submitted*).

Vaccine matching

Eight FMDV type O isolates (See Table C, Type O for details) from United Arab Emirates, Libya, Egypt, Israel, Kuwait and Vietnam collected in 2011 and 2012 were analysed antigenically by the two dimensional virus neutralisation test (2dmVNT). All isolates were antigenically matched with O TUR 5/09 and O4625 vaccine strains except the virus from Vietnam which showed no matching with any vaccine strain examined. One virus from Egypt and Israel also showed close matching with O Manisa. (Table C).

Seven FMDV type A viruses (see table C, Type A for details) from Turkey, Egypt, Pakistan, Thailand, Vietnam and Bahrain collected in 2010, 2011 and 2012 were analysed antigenically by the two dimensional virus neutralisation test (2dmVNT). All isolates showed antigenic match with the A TUR 06 vaccine strain except one virus from Thailand. One virus from Turkey, Pakistan, Thailand and Vietnam were also antigenically close to A22 IRAQ vaccine virus. (Table C).

Six FMDV type Asia 1 viruses (see table C, Type Asia 1 for details) from Pakistan, Iran and Turkey collected in 2011 and 2012 all showed no antigenic match with ASIA 1 IND 8/79 vaccine strain by the two dimensional virus neutralisation test (2dmVNT). One virus from Pakistan and Turkey gave a good match with Asia 1 Shamir vaccine virus antigenically. Two viruses from Turkey showed a close match with Asia 1 TUR 11 vaccine virus (Table C).

Eight FMDV type SAT 2 viruses (see table C, Type SAT 2 for details) from Libya, Bahrain, Egypt, Tanzania and Palestinian Autonomous Territories were analysed antigenically by the two dimensional virus neutralisation test (2dmVNT). All viruses except two from Libya showed antigenic matching with SAT 2 Eritrea vaccine strains. The two SAT2 viruses from Libya showed no match with either SAT 2 Eritrea or SAT 2 Zim vaccine strains (Table C).

TABLE C: Antigenic characterisation of FMD field isolates by matching with vaccine strains by VNT from 1st APRIL to 30th JUNE 2012 (Egypt)

Type O: Vaccine Matching studies for serotype O FMDV by VNT-WRL FMD				
WRL SAMPLE REF	TYPE	O 4625	O Manisa	O Tur 5/09
EGY 10/2011	O	M	N	M
EGY 6/2011	O	M	M	M

Type A: Vaccine Matching studies for serotype A FMDV by VNT-WRL FMD										
WRL SAMPLE REF	TYPE	A MAY 97	A IND 17/82	A Eri 98	A IRN 87	A Iran 2005	A SAU 41/91	A SAU 95	A TUR 06	A22 IRQ
EGY 1/2012	A			N	N	N		N	M	N

Type SAT 2: Vaccine Matching studies for serotype SAT 2 FMDV by VNT-WRL FMD				
WRL SAMPLE REF	TYPE	SAT2 Eritrea	SAT2 ZIM	SAT2 ZIM 7/83
EGY 2/2012	SAT2	M		N

In the case of VNT:

M: $r1 = > 0.3$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

N: $r1 = < 0.3$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect

PERIOD : JULY-SEPTEMBER 2012

NO CLINICAL SAMPLES SUBMITTED – NO VACCINE MATCHING CARRIED OUT

PERIOD : OCTOBER -DECEMBER 2012

Four **FMD type O** viruses from samples collected throughout Egypt belonged to toptotype EA-3 and were very closely related to viruses from Eritrea and Ethiopia, suggesting a recent introduction and widespread occurrence in Egypt. A similar virus has also been detected in Libya, close to the Egyptian border. Three **FMD type A** viruses belonged to the AFRICA toptotype, G-IV lineage and were closely related to viruses from Sudan in 2011, again suggesting a recent introduction of this lineage into Egypt. The samples came from Luxor and Giza, widely separated areas. Seven **FMD type SAT 2** viruses (all from the north-east Delta area) belonged to toptotype VII, Ghb-12 lineage and were closely related to each other and to SAT 2's previously found to be widely distributed in Egypt.

TABLE A: Clinical sample diagnosis made by the WRLFMD® between October-December 2012 (Egypt)

Sample Identification	Animal	Date of Collection	Results		
			VI/ELISA	RT-PCR	Final report
EGY 16/2012	BUFFALO	08-Mar-12	SAT 2	POS	SAT 2
EGY 17/2012	BUFFALO	08-Mar-12	SAT 2	POS	SAT 2
EGY 18/2012	CATTLE	09-Mar-12	A	POS	A
EGY 19/2012	CATTLE	28-Feb-12	O	POS	O
EGY 20/2012	CATTLE	09-Mar-12	A	POS	A
EGY 21/2012	CATTLE	13-Mar-12	SAT 2	POS	SAT 2
EGY 22/2012	CATTLE	13-Mar-12	SAT 2	POS	SAT 2
EGY 23/2012	CATTLE	22-Mar-12	NT	POS	FMDV GD
EGY 24/2012	CATTLE	02-Apr-12	NT	POS	FMDV GD
EGY 25/2012	SHEEP	03-Apr-12	O	POS	O
EGY 26/2012	SHEEP	25-Apr-12	O	POS	O
EGY 27/2012	CATTLE	08-May-12	O	POS	O
EGY 28/2012	CATTLE	17-May-12	SAT 2	POS	SAT 2
EGY 29/2012	CATTLE	19-May-12	SAT 2	POS	SAT 2
EGY 30/2012	CATTLE	19-May-12	A	POS	A
EGY 31/2012	CATTLE	21-May-12	SAT 2	POS	SAT 2
EGY 32/2012	CATTLE	22-May-12	NT	NT	NVD
EGY 33/2012	BUFFALO	22-May-12	NT	NEG	NVD
EGY 34/2012	CATTLE; BUFFALO	03-Jun-12	NT	NEG	NVD
EGY 35/2012	CATTLE	04-Jul-12	NT	POS	FMDV GD
EGY 36/2012	CATTLE	05-Aug-12	NT	POS	FMDV GD
EGY 16/2012	BUFFALO	08-Mar-12	SAT 2	POS	SAT 2
EGY 17/2012	BUFFALO	08-Mar-12	SAT 2	POS	SAT 2
EGY 18/2012	CATTLE	09-Mar-12	A	POS	A
EGY 19/2012	CATTLE	28-Feb-12	O	POS	O
EGY 20/2012	CATTLE	09-Mar-12	A	POS	A
EGY 21/2012	CATTLE	13-Mar-12	SAT 2	POS	SAT 2
EGY 22/2012	CATTLE	13-Mar-12	SAT 2	POS	SAT 2
EGY 23/2012	CATTLE	22-Mar-12	NT	POS	FMDV GD
EGY 24/2012	CATTLE	02-Apr-12	NT	POS	FMDV GD
EGY 25/2012	SHEEP	03-Apr-12	O	POS	O
EGY 26/2012	SHEEP	25-Apr-12	O	POS	O
EGY 27/2012	CATTLE	08-May-12	O	POS	O
EGY 28/2012	CATTLE	17-May-12	SAT 2	POS	SAT 2
EGY 29/2012	CATTLE	19-May-12	SAT 2	POS	SAT 2
EGY 30/2012	CATTLE	19-May-12	A	POS	A
EGY 31/2012	CATTLE	21-May-12	SAT 2	POS	SAT 2
EGY 32/2012	CATTLE	22-May-12	NT	NT	NVD
EGY 33/2012	BUFFALO	22-May-12	NT	NEG	NVD
EGY 34/2012	CATTLE; BUFFALO	03-Jun-12	NT	NEG	NVD
EGY 35/2012	CATTLE	04-Jul-12	NT	POS	FMDV GD
EGY 36/2012	CATTLE	05-Aug-12	NT	POS	FMDV GD

FMD(V) Foot-and-mouth disease (virus)

FMDV GD Genome detected

VI/ELISA FMDV serotype identified following virus isolation in cell culture and antigen ELISA

RT-PCR Reverse transcription polymerase chain reaction on epithelial suspension for FMD (orSVD) viral genome

NVD No foot-and-mouth disease, swine vesicular disease or vesicular stomatitis virus detected

NT Not tested

TABLE B: Summary of samples collected and received to The Pirbright Institute (Egypt , October-December 2012)

Country	No. of samples	Virus isolation in cell culture/ELISA FMD virus serotypes							RT-PCR for FMD (or SVD) virus (where appropriate)		
		O	A	C	SAT 1	SAT 2	SAT 3	Asia 1	NVD	Positive	Negative
EGYPT	21	4	3	-	-	7	-	-	7	18	2

VI/ELISA FMD (or SVD) virus serotype identified following virus isolation in cell culture and antigen detection ELISA

FMD foot-and-mouth disease

SVD swine vesicular disease

NVD no FMD, SVD or vesicular stomatitis virus detected

NT not tested

RT-PCR reverse transcription polymerase chain reaction for FMD (or SVD) viral genome

Vaccine matching

Twenty one FMDV type O isolates (See Table C, Type O for details) from Eritrea, Kenya, Egypt, Ethiopia, Iran, Turkey, Vietnam, Saudi Arabia, Sudan and Tanzania collected in 2011 and 2012 were analysed antigenically by the two dimensional virus neutralisation test (2dmVNT). All isolates from Saudi Arabia, Eritrea, Ethiopia, Iran and Sudan and one virus from Kenya were antigenically matched with O TUR 5/09. All isolates from Vietnam were antigenically matched with O 3039. Two viruses from Egypt and one virus from Tanzania showed no match with any of the vaccine strains against which they were tested (Table C).

Four FMDV type A viruses (See Table C, Type A for details) from Egypt and Sudan collected during 2011 and 2012 showed antigenic matching with A Eritrea and/or A TUR 06 vaccine strain by the 2dmVNT (Table C).

One FMDV type SAT 1 virus (see table C, Type SAT 1 for details) from Tanzania was antigenically matched with vaccine strain SAT 1 105 by the 2dmVNT (Table C).

One FMDV type SAT 2 virus (see table C, Type SAT 2 for details) from Tanzania was antigenically matched with both SAT 2 Eritrea and SAT 2 ZIM vaccine strains by the 2dmVNT (Table C).

TABLE C: Antigenic characterisation of FMD field isolates by matching with vaccine strains by 2dmVNT from 1st October to 31st December 2012 (Egypt)

Type O: Vaccine Matching studies for serotype O FMDV by VNT-WRLFMD®					
SAMPLE REF	O 3039	O 4625	O Manisa	O Tur 5/09	O Campos
O EGY 19/12		N	N	N	N
O EGY 27/12		N	N	N	N

Vaccine Matching studies for serotype A FMDV by VNT-WRLFMD®						
SAMPLE REF	A Eritrea	A Iran 2005	A SAU 41/91	A SAU 95	A TUR 06	A22
EGY 18/2012	M	N		N	M	N
EGY 30/2012	M	N		N	M	N

In the case of VNT:

M: $r1 = > 0.3$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

N: $r1 = < 0.3$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

**C ACCUMULATIVE VIRUS MOLECULAR CHARACTERIZATION RESULTS
(IN SAMPLES SUBMITTED FROM EGYPT IN 2012)**

S/N	Date collected	Location	Date received by WRL FMD	Report Date	Serotype	WRL-FMD Ref no
1	21/04/2011	Memofia Shebeen, Egypt	12/03/2012	05/04/2012	O	EGY/6/2011
2	21/04/2011	Memofia Shebeen, Egypt	12/03/2012	05/04/2012	O	EGY/7/2011
3	13/07/2011	Suze- Amer, Egypt	12/03/2012	05/04/2012	O	EGY/10/2011
4	14/10/2010	Giza-Talbia, Egypt	12/03/2012	05/04/2012	A	EGY/1/2010
5	15/10/2010	Fayoum Al Lahoun, Egypt	12/03/2012	05/04/2012	A	EGY/2/2010
6	15/10/2010	Fayoum Al Lahoun, Egypt	12/03/2012	05/04/2012	A	EGY/3/2010
7	09/01/2011	6 Oct.Gov. Nahia, Egypt	12/03/2012	05/04/2012	A	EGY/2/2011
8	11/04/2011	Cairo-Ale4x-desert Road, Egypt	12/03/2012	05/04/2012	A	EGY/5/2011
9	19/05/2011	Beni Suif Ahnasia, Egypt	12/03/2012	05/04/2012	A	EGY/8/2011
10	14/06/2011	Suze- Amer, Egypt	12/03/2012	05/04/2012	A	EGY/9/2011
11	08/02/2012	Ismaielya-Salhya 2, Egypt	12/03/2012	05/04/2012	A	EGY/1/2012
12	17/02/2012	Alexrandria, Egypt	12/03/2012	05/04/2012	SAT2	EGY/2/2012
13	18/02/2012	Garbia, Egypt	12/03/2012	05/04/2012	SAT2	EGY/3/2012
14	27/02/2012	Menia, Egypt	12/03/2012	05/04/2012	SAT2	EGY/4/2012
15	27/02/2012	Menia, Egypt	12/03/2012	15/03/2012	SAT2	EGY/5/2012
16	27/02/2012	Kafre El-Shaisk, Egypt	12/03/2012	15/03/2012	SAT2	EGY/6/2012
17	29/02/2012	El-Suiz, Egypt	12/03/2012	15/03/2012	SAT2	EGY/9/2012
18	29/02/2012	Giza, Egypt	12/03/2012	05/04/2012	SAT2	EGY/10/2012
19	29/02/2012	Mnoufia, Egypt	12/03/2012	05/04/2012	SAT2	EGY/11/2012
20	01/03/2012	Qalubia-Banha, Egypt	12/03/2012	05/04/2012	SAT2	EGY/13/2012
21	03/03/2012	Garbia, Egypt	12/03/2012	05/04/2012	SAT2	EGY/14/2012
22	04/03/2012	Fayoum, Egypt	12/03/2012	05/04/2012	SAT2	EGY/15/2012
23	28/02/2012	Al Zlefay, Zainia, Luxor, Upper Egypt, Egypt	02/10/2012	03/11/2012	O	EGY/19/2012
24	03/04/2012	Abo Z Reba, Saloum, Matrouh, Western, Egypt	02/10/2012	03/11/2012	O	EGY/25/2012
25	25/04/2012	Gazala, El Dabha, Matrouh, Western, Egypt	02/10/2012	03/11/2012	O	EGY/26/2012
26	08/05/2012	Abo Greda, Faras Qour, Domyat, Delta, Egypt	02/10/2012	03/11/2012	O	EGY/27/2012
27	09/03/2012	Al Zlefay, Zainia, Luxor, Upper Egypt, Egypt	02/10/2012	03/11/2012	A	EGY/18/2012
28	09/03/2012	Hamaden, Zainia, Luxor, Upper Egypt, Egypt	02/10/2012	03/11/2012	A	EGY/20/2012
29	19/05/2012	Dina Farm, Giza, Delta, Egypt	02/10/2012	03/11/2012	A	EGY/30/2012
30	08/03/2012	Abo Greda, Farasqour, Domyat, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/16/2012
31	08/03/2012	Abo Greda, Farasqour, Domyat, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/17/2012

32	13/03/2012	Fwa, Sendion, Kafr El Sheikh, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/21/2012
33	13/03/2012	Fwa, Sendion, Kafr El Sheikh, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/22/2012
34	17/05/2012	Manzala, El Daqahleya, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/28/2012
35	19/05/2012	Rawda, Faras Qour, Domyat, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/29/2012
36	21/05/2012	Kafr El Tagi, Kafr El Sheikh, Kafr El Sheikh, Delta, Egypt	02/10/2012	03/11/2012	SAT2	EGY/31/2012

Note that apart from the above the following results were reported too:

Type of Result	Samples/sequences received
FMDV-GD (Genome detected)	EGY/1/2011, EGY/3/2011 , EGY/4/2011 , EGY/7/2012 ,EGY/8/2012 EGY/23/2012, EGY/24/2012, EGY/35/2012, EGY/36/2012
NVD (no FMD, SVD or vesicular stomatitis virus detected)	EGY/12/2012, EGY/32/2012, EGY/33/2012, EGY/34/2012