

Supplementary Materials

Table S1. List of samples resulted positive to FMDV SAT1 with real-time RT-PCR results.

SAMPLE No	Ct values real-time RT-PCR 3D	Ct values real-time RT-PCR VP1
392225	30,04	28,72
378140	19,79	22,08
378159/1	15,99	20,21
378177/1	19,27	24,18
378177/2	17,02	19,75
378194/1	14,30	15,87
378194/2	16,77	18,64
378199	10,19	10,96
378205/1	15,18	16,91
378205/2	13,24	13,78
347782/1	19,48	nd
350434/1	19,61	nd
350434/2	20,87	nd
350434/3	10,26	nd
350434/4	17,27	nd
350434/5	17,33	19,87
353693/2	19,79	19,69
353693/3	13,51	15,63
353693/4	10,29	12,76
353717/1	17,34	23,53
353717/3	13,45	nd
359649/1	18,56	16,08
359674/2	15,82	17,05
359674/3	16,90	19,07
359674/4	10,12	10,06
359674/5	16,24	15,19
359674/7	22,25	25,18
359708/1	18,24	26,69
359708/2	17,45	23,92
359708/4	14,18	17,20
359717	16,93	20,83

This table lists all samples resulted positive to SAT1 (first column) and shows the Ct values of pan-FMDV real-time RT-PCR (second column) and topotype-specific real-time RT-PCR (third column). Samples not detected (nd) by the specific reaction are in italic. In these samples the pan-FMDV test yielded Ct values within the same range of all other samples, thus excluding low virus concentration as cause for failure. nd, not detected.

Table S2. Ag-ELISA and real-time RT-PCR results for samples in which two serotypes were detected.

SAMPLE No	Ag-ELISA	VI + Ag-ELISA	Ct values real-time RT-PCR 3D	Ct values real-time RT-PCR VP1
40783/1	SAT2	SAT2	13,84	SAT2/IV 34.54 O/EA2-4 41.13
211987/1	NEG	SAT2	25,13	A/AFRICA/G-I 25.66 SAT2/IV 33.33
211987/2	NEG	SAT2	24,68	A/AFRICA/G-I 24.24 SAT2/IV 37.21
211987/3	A	A	7,83	A/AFRICA/G-I 7.26 SAT2/IV 42.80
378194/1	SAT1	SAT1	14,3	SAT1/I (NWZ) 15.87 A/AFRICA/G-I 31.64

This table includes all samples in which two serotypes were detected (first column), the results of Ag-ELISA testing (second column), the type of isolated virus (third column) and the Ct values of pan-FMDV real-time RT-PCR (fourth column) and of the topotype-specific real-time RT-PCRs showing a positive outcome (fifth and last column). Samples with consequential numbers (i.e. 211987/1, 2 and 3) were collected contemporarily in the same farm and according to type-specific real-time RT-PCRs all harbour viruses of serotype A and SAT2; however, even if all three samples displayed lower Ct for type A reaction, in the first two the type SAT2 virus was isolated on LFBK cell line, while the type A virus emerged in culture from the third sample, which was even more rich in this serotype according the real-time RT-PCR outcomes.

Table S3. Samples positive only by 3D real-time RT-PCR.

SAMPLE No	Ct values real-time RT-PCR 3D	Ct values real-time RT-PCR VP1	Type
40767	23.25	nd	nd
347782/2	34.94	nd	nd

This table lists the two samples positive (first column) only by real-time RT-PCR targeted on 3D (second column), with relevant Ct values. These samples could not be typed, neither by toptotype-specific real-time RT-PCR (third column) nor by any other test (fourth column; nd: not detected).