

Additional testing of samples received from South Sudan has been performed using a new lineage-specific real-time RT-PCR (rRT-PCR) designed to detect FMD viruses from the O/EA-3 topotype. Based on these results, there is evidence for FMD viruses from the O/EA-3 topotype in these samples. **Please note that this is not a validated test, and that results should be interpreted cautiously – especially since it was not possible to generate sequences from these specimens.**

Results are summarised in the Table below:

Your ref	WRLFMD Reference number	Sample type	Previously reported result (29/08/2018)		Additional results	
			3D rRT-PCR ^a	Reported result (date)	3D rRT-PCR (repeat) ^a	Result for O/EA-3 rRT-PCR
NBG-2	SSD 1/2017	OF	UD	FMDV negative	UD	UD
SS2/2018	SSD 2/2017	OF	40.41*	FMDV negative	UD	UD
SS3/2018	SSD 3/2017	OF	20.72	FMDV positive	17.69	20.93
SS4/2018	SSD 4/2017	OF	19.45	FMDV positive	17.82	23.83
SS5/2018	SSD 5/2017	OF	29.77	FMDV positive	17.11	20.20
SS6/2018	SSD 6/2017	OF	20.93	FMDV positive	18.96	24.84
SS7/2018	SSD 7/2017	OF	36.70	FMDV negative	UD	UD
Jonglei	SSD 8/2017	OF	UD	FMDV negative	UD	UD
SS8/2018	SSD 9/2017	OF	UD	FMDV negative	UD	UD
SS9/2018	SSD 10/2017	OF	35.16	FMDV negative	UD	UD
SS10/2018	SSD 11/2017	OF	38.20*	FMDV negative	UD	39.98*
SS11/2018	SSD 12/2017	OF	UD	FMDV negative	UD	UD
SS12/2018	SSD 13/2017	OF	34.35	FMDV negative	30.99	36.90*
SS13/2018	SSD 14/2017	OF	UD	FMDV negative	UD	UD
SS14/2018	SSD 15/2017	OF	26.08	FMDV positive	22.17	31.63
SS16/2018	SSD 16/2017	OF	UD	FMDV negative	UD	UD
SS25/2018	SSD 17/2017	OF	UD	FMDV negative	35.31	36.70*
SS27/2018	SSD 18/2017	OF	44.98*	FMDV negative	UD	UD
SS26/2018	SSD 19/2017	OF	UD	FMDV negative	UD	40.93*
SS19/2018	SSD 20/2017	OF	UD	FMDV negative	UD	40.20*
SS20/2018	SSD 21/2017	OF	UD	FMDV negative	UD	UD
SS28/2018	SSD 22/2017	OF	UD	FMDV negative	UD	UD
SS18/2018	SSD 23/2017	OF	33.23	FMDV positive	28.02	30.87
SS24/2018	SSD 24/2017	OF	29.86	FMDV positive	30.06	33.21
SS29/2018	SSD 25/2017	OF	UD	FMDV negative	UD	UD
SS22/2018	SSD 26/2017	OF	36.59*	FMDV negative	42.61*	36.83*
SS16/2018	SSD 27/2017	OF	UD	FMDV negative	35.34	UD
SS17/2018	SSD 28/2017	OF	UD	FMDV negative	UD	UD
SS23/2018	SSD 29/2017	OF	UD	FMDV negative	UD	UD

UD: undetermined/no signal in the real-time RT-PCR assay

Real-time RT-PCR results shown are average CT values for duplicates (* denotes samples where only a single replicate generated a signal in the real-time RT-PCR)

^a cut-off <32 is used to define a FMDV positive sample using the 3D rRT-PCR