Supplementary Table 1. Conventional PCR thermal cycler condition.

Conventional PCR thermal cycler condition			
PCR steps	**Time**	**Temperature °C**	**No. of cycles**
Reverse transcription	30 (min)	50	1
Initial PCR activation step	15 (min)	95	1
Denaturation	45 (sec)	94	40
Annealing	60 (sec)	52-62 *	
Extension	60 (sec)	72	
Final extension	10 (min)	72	1

*** According to virus detected as follow:**

Alkhumra Hemorrhagic Fever Virus **(ALKV)**	***Crimean-Congo Haemorrhagic Fever Virus*** **(CCHFV)**	***Thogoto virus*** **(THOV)**	***Dugbe virus*** **(DGV)**	***Phlebovirus***
62°C	37°C (5 cycles), 52°C (35 cycles)	55°C	55°C	60°C

Supplementary Table 2: Nested PCR thermal cycler condition.

Nested PCR thermal cycler condition				
Condition	**Virus**	AHFV	CCHFV	*phlebovirus*
Initial Denaturation	Temperature °C	95	95	95
	Time	2 min	2 min	2 min
Annealing	Temperature °C	58	55	60
	Time	1 min	1 min	1 min
Elongation	Temperature °C	72	72	72
	Time	1 min	1 min	1 min
	No. of cycles	40	40	40
Final extension	Temperature °C	72	72	72
	Time	5 min	5 min	5 min

Supplementary Table 3. Real-time RT-PCR thermal cycler condition for detection of *Crimean-Congo Haemorrhagic Fever Virus*, *Dugbe virus*, and *Alkhumra Hemorrhagic Fever* Virus.

Cycle condition used in rRT-PCR (probe)			
Step	Cycles	Temperature	Time
Activation	1	48°C	30 min
		95°C	2 min
Denaturation	40	95°C	30 seconds
Annealing		60°C	1 minute
Final extension	1	68°C	25 sec

Supplementary Table 4. Synthesize of the cDNA cycle condition.

Synthesize of the cDNA cycle condition		
Step	**Temperature**	**Time**
Anneal (Optional)	25°C	5 min
Extend	42°C	1 hour
Inactivate	70°C	15 min

Supplementary Table 5. Real-time RT-PCR thermal cycler condition for detection of *Phleboviruses* and *Thogoto* virus.

Cycle condition used in rRT-PCR (without probe)			
Step	**Cycles**	**Temperature**	**Time**
GoTaq® Hot Start Polymerase activation	1	95°C	2 min
Denaturation	40	95°C	15 sec
Annealing and extension		60°C	1 min