Use of Plasma Therapy for Severe Fever with Thrombocytopenia Syndrome Encephalopathy

Technical Appendix

Performance of Real-Time Reverse Transcription PCR to Detect Severe Fever with Thrombocytopenia Syndrome Virus RNA

We performed real-time reverse transcription PCR (RT-PCR), as described previously (1,2), to detect severe fever with thrombocytopenia syndrome virus RNA. RNA was extracted from serum with a viral RNA extraction kit (iNtRON Biotechnology, Gyeonggi, Republic of Korea). The real-time RT-PCR for severe fever with thrombocytopenia syndrome virus was performed in 25 μL reaction mixtures containing 5 μL of RNA template. We used a set of 2 primers (F-GGGTCCCTGAAGGAGTTAAA, R-TGCCTTCACCAAGACTATCAATGT) and 1 probe (TexasRed-TTCTGTCTTGCTGGCTCCGCGC-BHQ) for S segment, and a set of 2 primers (F-AAGAAGTGGCTGTTCATCATTATTG, R-G CCTAAGGACATTGGTGAGTA) and 1 probe (FAM-TCATCCTCCTGGATATGCAGGCCCTCA-BHQ) for M segment. All assays were conducted at the following cycling conditions: 50°C for 30 min (1 cycle); 95°C for 10 min (1 cycle); 95°C for 15 s and 60°C for 45 sec (40 cycles).

References
