Functional Testing (LAMP, Master Mix) - A 25 µl reaction with 1X WarmStart® Colorimetric LAMP Master Mix (DNA & RNA) in the presence of 1X LAMP Primers containing 10 ng genomic DNA and 1X LAMP fluorescent dye results in a threshold time of ≤ 15 minutes as determined by fluorescent detection.  
Pass

Functional Testing (RT-LAMP, Master Mix) - A 25 µl reaction with 1X WarmStart® Colorimetric LAMP Master Mix (DNA & RNA) in the presence of 1X LAMP Primers containing 10 ng of genomic RNA and 1X LAMP fluorescent dye results in a threshold time of ≤ 15 minutes as determined by fluorescent detection.  
Pass

Non-Specific DNase Activity (16 hour, Buffer) - A 50 µl reaction in 1X WarmStart® Colorimetric LAMP Master Mix (DNA & RNA) containing 1 µg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.  
Pass

qPCR DNA Contamination (E. coli Genomic) - A minimum of 1 µl of WarmStart® Colorimetric LAMP Master Mix (DNA & RNA) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.  
Pass

RNase Activity (Extended Digestion) - A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA) is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.  
Pass