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Date

13 Jan 2022

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New England Biolabs Product Specification

Product Name: LyoPrime Luna™ Probe One-Step RT-qPCR Mix with UDG

Catalog #:

Shelf Life:

24 months

Storage Temp:

15°C to 25°C

Composition:

Proprietary

Specification Version:

PS-L4001S v1.0

Effective Date:

13 Jan 2022

Assay Name/Specification (minimum release criteria)

Functional Testing (One-Step RT-qPCR) - LyoPrime Luna™ Probe One-Step RT-qPCR Mix is functionally tested in One-Step RT-qPCR with human RNA template, resulting in a standard curve with a calculated qPCR efficiency of 90-110%, and a dynamic range of 8 orders of magnitude.

Non-Specific DNase Activity (16 hour, Buffer) - A 50 μ l reaction in 1X LyoPrime LunaTM Probe One-Step RT-qPCR Mix with UDG containing 1 μ g of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

qPCR DNA Contamination (E. coli Genomic) - A minimum of 1 μ l of 2X LyoPrime LunaTM Probe One-Step RT-qPCR Mix with UDG 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.

RNase Activity (Extended Digestion) - A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l of 2X LyoPrime LunaTM Probe One-Step RT-qPCR Mix with UDG 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.

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Derek Robinson

Director, Quality Control





