NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Product Name:	*Luna® Universal qPCR Master Mix*
Catalog Number:	*M3003X*
Concentration:	*2 X Concentrate*
Lot Number:	*10048858*
Expiration Date:	*06/2021*
Storage Temperature:	*-20°C*
Specification Version:	*PS-M3003S/L/G/X/E v1.0*
Composition (1X):	*Proprietary*

Luna® Universal qPCR Master Mix Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
M3003L	Luna® Universal qPCR Master Mix	10048418	**Pass**

Assay Name/Specification	Lot # 10048858
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µl of Luna® Universal qPCR Master Mix 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 Assay (4 Hour 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 Luna® Universal qPCR Master Mix is incubated at 37ºC. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	**Pass**
Functional Testing (qPCR) Luna® Universal qPCR Master Mix is functionally tested in qPCR with human cDNA template, resulting in a standard curve with a calculated qPCR efficiency of 90-110%, and a dynamic range of 5 orders of magnitude.	**Pass**
Non-Specific DNase Activity (16 hour, Master Mix) A 50 µl reaction in 1X Luna® Universal qPCR Master Mix 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**

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This product has been tested and shown to be in compliance with all specifications.

Christie Vazquez
Production Scientist
25 Jul 2019

Michael Tonello
Packaging Quality Control Inspector
25 Jul 2019