

New England Biolabs Product Specification

Product Name: NEBNext[®] High-Fidelity 2X PCR Master Mix
Catalog #: M0541S/L
Concentration: 2X Concentrate
Shelf Life: 18 months
Storage Temp: -20°C
Composition (1X): Proprietary
Specification Version: PS-M0541S/L v1.0
Effective Date: 13 Jun 2018

Assay Name/Specification (minimum release criteria)

Non-Specific DNase Activity (16 hour, Master Mix) - A 50 µl reaction in 1X NEBNext[®] High-Fidelity 2X PCR Master Mix containing 1 µg of T3 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.

PCR Amplification (Master Mix) - A 50 µl reaction containing 0.5 µM primers with 20 ng human genomic DNA and 1X NEBNext[®] High-Fidelity 2X PCR Master Mix for 30 cycles of PCR amplification results in the expected 737 bp product.

Phosphatase Activity (pNPP) - A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl₂ containing 2.5 mM *p*-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl of NEBNext[®] High-Fidelity 2X PCR Master Mix incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.



Date 13 Jun 2018

Derek Robinson
Director of Quality Control

