

New England Biolabs Certificate of Analysis

Product Name: NEBNext® High-Fidelity 2X PCR Master Mix
Catalog Number: M0541S
Concentration: 2 X Concentrate
Packaging Lot Number: 10246222
Expiration Date: 09/2025
Storage Temperature: -20°C
Specification Version: PS-M0541S/L v2.0
Composition (1X): Proprietary

NEBNext® High-Fidelity 2X PCR Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0541SVIAL	NEBNext® High-Fidelity 2X PCR Master Mix	10246223	Pass

Assay Name/Specification	Lot # 10246222
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 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.	Pass
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.	Pass
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl ₂ 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.	Pass

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

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Christine Sumner
Production Scientist
05 Jul 2024



Josh Hersey
Packaging Quality Control Inspector
05 Jul 2024