

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: 10242481
Expiration Date: 04/2025
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	10242482	Pass

Assay Name/Specification	Lot # 10242481
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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Christine Sumner

Christine Sumner
Production Scientist
14 Jun 2024

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
14 Jun 2024