

*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:	NEBNext® High-Fidelity 2X PCR Master Mix
Catalog Number:	M0541L
Concentration:	2 X Concentrate
Packaging Lot Number:	10175395
Expiration Date:	04/2024
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	10169146	Pass

Assay Name/Specification	Lot # 10175395
PCR Amplification (Master Mix)	Pass
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)	Pass
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.	
Non-Specific DNase Activity (16 hour, Master Mix)	Pass
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.	

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.





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Michael Tonello Packaging Quality Control Inspector 15 Dec 2022

