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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:	M0541S
Concentration:	2 X Concentrate
Packaging Lot Number:	10054364
Expiration Date:	02/2021
Storage Temperature:	-20°C
Specification Version:	PS-M0541S/L v1.0
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	10054365	Pass

Assay Name/Specification	Lot # 10054364
<b>Non-Specific DNase Activity (16 hour, Master Mix)</b> 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.	Pass
PCR Amplification (Master Mix) A 50 $\mu$ I reaction containing 0.5 $\mu$ M 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
<b>Phosphatase Activity (pNPP)</b> 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.	Pass

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





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Melissa Arn Production Scientist 21 Oct 2019

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