

## New England Biolabs Certificate of Analysis

Product Name: NEBNext<sup>®</sup> Q5<sup>®</sup> Hot Start HiFi PCR Master Mix  
 Catalog Number: M0543L  
 Packaging Lot Number: 10100526  
 Expiration Date: 10/2022  
 Storage Temperature: -20°C  
 Specification Version: PS-M0543S/L v2.0

NEBNext <sup>®</sup> Q5 <sup>®</sup> Hot Start HiFi PCR Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0543SVIAL	NEBNext <sup>®</sup> Q5 <sup>®</sup> Hot Start HiFi PCR Master Mix	10095135	Pass

Assay Name/Specification	Lot # 10100526
<p><b>Phosphatase Activity (pNPP)</b>            A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl<sub>2</sub> containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl of NEBNext<sup>®</sup> Q5<sup>®</sup> Hot Start HiFi PCR Master Mix incubated for 4 hours at 37°C yields &lt;0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p>	Pass
<p><b>Non-Specific DNase Activity (16 hour, Master Mix)</b>            A 50 µl reaction in 1X NEBNext<sup>®</sup> Q5<sup>®</sup> Hot Start HiFi 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.</p>	Pass
<p><b>Functional Testing (Multiplex PCR, Bead Inhibition)</b>            A 50 µl reaction in 1X NEBNext<sup>®</sup> Q5<sup>®</sup> Hot Start HiFi PCR Master Mix and 0.5 µM 3-plex primer mix containing 20 ng Human Genomic DNA for 30 cycles of PCR amplification results in the expected three amplicons and no inhibition of amplification in the presence of the beads.</p>	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](http://www.neb.com/trademarks) for additional information.

*Christine Sumner*

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19 Feb 2021

*Michael Tonello*

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Packaging Quality Control Inspector  
19 Feb 2021