

New England Biolabs Certificate of Analysis

Product Name: NEBNext® Q5® Hot Start HiFi PCR Master Mix
Catalog Number: M0543S
Lot Number: 10008083
Expiration Date: 02/2020
Storage Temperature: -20°C
Specification Version: PS-M0543S/L v1.0

NEBNext® Q5® Hot Start HiFi PCR Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0543SVIAL	NEBNext® Q5® Hot Start HiFi PCR Master Mix	0091802	Pass

Assay Name/Specification	Lot # 10008083
<p>Functional Testing (Multiplex PCR, Bead Inhibition) A 50 µl reaction in 1X NEBNext® Q5® 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
<p>Non-Specific DNase Activity (16 hour, Master Mix) A 50 µl reaction in 1X NEBNext® Q5® Hot Start HiFi 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.</p>	Pass
<p>Phosphatase Activity (pNPP) 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® Q5® Hot Start HiFi PCR Master Mix incubated for 4 hours at 37°C yields <0.0001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.</p>	Pass

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

Christine Sumner

Christine Sumner
Production Scientist
11 May 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
11 May 2018