

New England Biolabs Certificate of Analysis

Product Name: NEBNext® Q5® Hot Start HiFi PCR Master Mix
 Catalog Number: M0543S
 Packaging Lot Number: 10161279
 Expiration Date: 06/2024
 Storage Temperature: -20°C
 Specification Version: PS-M0543S/L v2.0

| 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 | 10161280 | Pass |

| Assay Name/Specification | Lot # 10161279 |
|--|----------------|
| <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 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>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.

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
17 Oct 2022

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
19 Jan 2023