

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] Q5[®] Hot Start HiFi PCR Master Mix
Catalog #: M0543S/L
Lot #: 0091802
Assay Date: 02/2018
Expiration Date: 02/2020
Storage Temp: -20°C
Specification Version: PS-M0543S/L v1.0
Effective Date: 17 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0091802
<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 <i>p</i>-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



Authorized by
Derek Robinson
17 Apr 2018



Inspected by
Christine Sumner
13 Feb 2018

