

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] Ultra[™] II Q5[®] Master Mix
 Catalog Number: M0544X
 Concentration: 2 X Concentrate
 Packaging Lot Number: 10148948
 Expiration Date: 04/2023
 Storage Temperature: -20°C
 Specification Version: PS-M0544S/L/X v3.0

NEBNext [®] Ultra [™] II Q5 [®] Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0544XVIAL	NEBNext [®] Ultra [™] II Q5 [®] Master Mix	10148949	Pass

Assay Name/Specification	Lot # 10148948
<p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext Ultra II Q5 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>Functional Testing (Multiplex PCR, Bead Inhibition) A 50 µl reaction in 1X NEBNext[®] Ultra[™] II Q5[®] 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>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[®] Ultra[™] II Q5[®] 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
15 Apr 2022

Josh Hersey

Josh Hersey
Packaging Quality Control Inspector
12 May 2022