

New England Biolabs Certificate of Analysis

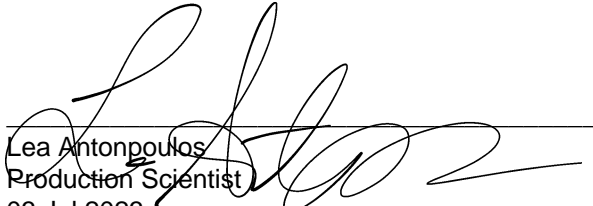
Product Name: Q5[®] Blood Direct 2X Master Mix
 Catalog Number: M0500G
 Concentration: 2 X Concentrate
 Packaging Lot Number: 10198149
 Expiration Date: 05/2025
 Storage Temperature: -20°C
 Specification Version: PS-M0500S/L/G v1.0
 Composition (1X): Proprietary

Q5 [®] Blood Direct 2X Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0500GVIAL	Q5 [®] Blood Direct 2X Master Mix	10196577	Pass

Assay Name/Specification	Lot # 10198149
<p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X Q5[®] Blood Direct 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>PCR Amplification (0.5 kb Whole Blood DNA) A 20 µl reaction in 1X Q5[®] Blood Direct Master Mix and 0.5 µM primers containing 10% whole blood treated with sodium heparin, sodium EDTA, potassium EDTA or sodium citrate for 35 cycles of PCR amplification results in the expected 0.5 kb product.</p>	Pass
<p>PCR Amplification (4.8 kb Whole Blood DNA) A 20 µl reaction in 1X Q5[®] Blood Direct Master Mix and 0.5 µM primers containing 15% whole blood treated with potassium EDTA for 35 cycles of PCR amplification results in the expected 4.8 kb product.</p>	Pass
<p>qPCR DNA Contamination (E. coli Genomic) A minimum of 1 µl of Q5[®] Blood Direct 2X Master Mix is screened for the presence of E. coli genomic DNA using SYBR[®] Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.</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.


Lea Antonopoulos
Production Scientist
03 Jul 2023


Michael Tonello
Packaging Quality Control Inspector
15 Aug 2023