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New England Biolabs Certificate of Analysis

Product Name: Q5® Blood Direct 2X Master Mix

Catalog Number: M0500G

Concentration: 2 X Concentrate

Packaging Lot Number: 10159686
Expiration Date: 07/2024
Storage Temperature: -20°C

Specification Version: PS-M0500S/L/G v1.0

Composition (1X): Proprietary

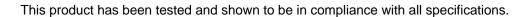
Q5® Blood Direct 2X Master Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0500GVIAL	Q5® Blood Direct 2X Master Mix	10159685	Pass	

Assay Name/Specification	Lot # 10159686
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.	Pass
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.	Pass
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.	Pass
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.	Pass



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Christie Vazquez Production Scientist 29 Jul 2022 Erin Varney

Packaging Quality Control Inspector

29 Jul 2022



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