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## New England Biolabs Certificate of Analysis

Product Name: OneTaq® DNA Polymerase

Catalog Number: M0480L Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 15

nmol of dNTP into acid insoluble material in 30 minutes at 75°C.

Packaging Lot Number: 10090372
Expiration Date: 08/2022
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 0.5 % Tween®

20 , 0.5 % IGEPAL® CA-630 , 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0480S/L/X v2.0

OneTaq® DNA Polymerase Component List			
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result
M0480LVIAL	OneTaq® DNA Polymerase	10088138	Pass
B9026AVIAL	OneTaq® High GC Enhancer	10061963	Pass
B9023SVIAL	OneTaq® GC Reaction Buffer	10071516	Pass
B9022SVIAL	OneTaq® Standard Reaction Buffer	10088290	Pass

Assay Name/Specification	Lot # 10090372
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 2 containing 1 μg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA and a minimum of 5 units of OneTaq® DNA Polymerase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
PCR Amplification (5.0 kb Lambda DNA) A 25 μl reaction in OneTaq® Standard Reaction Buffer in the presence of 200 μM dNTPs and 0.2 μM primers containing 5 ng Lambda DNA with 0.625 units of OneTaq® DNA Polymerase for 25 cycles of PCR amplification results in the expected 5.0 kb product.	Pass
PCR Amplification (Buffer Dependent, >65% GC-rich) A 25 μl reaction in OneTaq® GC Reaction Buffer in the presence of 200 μM dNTPs and 0.2 μM primers containing 10 ng Human Genomic DNA with 0.625 units of OneTaq® DNA Polymerase for 30 cycles of PCR amplification results in the buffer-dependent production of the expected 737 bp product.	Pass



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This product has been tested and shown to be in compliance with all specifications.

and a minimum of 1 µI of OneTaq® DNA Polymerase is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by

gel electrophoresis using fluorescent detection.

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Christie Vazquez Production Scientist 10 Nov 2020 Michael Tonello

Packaging Quality Control Inspector

10 Nov 2020