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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: 10077365
Expiration Date: 02/2022
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>	Component Description	Lot Number	Individual QC Result	
M0480LVIAL	OneTaq® DNA Polymerase	10067314	Pass	
B9026AVIAL	OneTaq® High GC Enhancer	10061963	Pass	
B9023SVIAL	OneTaq® GC Reaction Buffer	10071516	Pass	
B9022SVIAL	OneTaq® Standard Reaction Buffer	10061962	Pass	

Assay Name/Specification	Lot # 10077365
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.

ristie Vanguez

Christie Vazquez Production Scientist 20 Jul 2020 Michael Tonello

Packaging Quality Control Inspector

20 Jul 2020



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