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## New England Biolabs Certificate of Analysis

Product Name: OneTaq® DNA Polymerase

Catalog Number: M0480X
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: 10063520
Expiration Date: 07/2021
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 v1.0

OneTaq® DNA Polymerase Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0480L	OneTaq® DNA Polymerase	10061965	Pass	

Assay Name/Specification	Lot # 10063520
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl 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.	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 (Enhancer Dependent, >70% GC-rich) A 25 μl reaction in OneTaq® GC Reaction Buffer and 20% OneTaq® High GC Enhancer 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 enhancer-dependent production of the expected 627 bp 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	Pass



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degradation as determined by agarose gel electrophoresis.

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

Christie Vazquez Production Scientist

03 Jan 2020

Michael Tonello

Packaging Quality Control Inspector

03 Jan 2020

