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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: 10175058
Expiration Date: 09/2024
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0480L	OneTaq® DNA Polymerase	10175059	Pass	

Assay Name/Specification	Lot # 10175058
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	Pass
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.	
RNase Activity (Extended Digestion)	Pass
A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of OneTag® 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.	
PCR Amplification (Enhancer Dependent, >70% GC-rich)	Pass
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.	
PCR Amplification (Buffer Dependent, >65% GC-rich)	Pass
A 25 µl reaction in OneTaq® GC Reaction Buffer in the presence of 200 µM dNTPs and	



M0480X / Lot: 10175058

Page 1 of 2

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.

Christie Vazquez Production Scientist 09 Jan 2023

vistie Vanguez

product.

Michael Tonello

Packaging Quality Control Inspector

09 Jan 2023



M0480X / Lot: 10175058

Page 2 of 2