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## New England Biolabs Certificate of Analysis

Product Name: OneTaq® DNA Polymerase

Catalog Number: M0480S 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: 10191604
Expiration Date: 03/2025
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
M0480SVIAL	OneTaq® DNA Polymerase	10189153	Pass
B9026AVIAL	OneTaq® High GC Enhancer	10179724	Pass
B9023SVIAL	OneTaq® GC Reaction Buffer	10186869	Pass
B9022SVIAL	OneTaq® Standard Reaction Buffer	10157597	Pass

Assay Name/Specification	Lot # 10191604
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.

gel electrophoresis using fluorescent detection.

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.

Lea Antonpoulos/ Production Scientist

01 May 2023

Josh Hersey

Packaging Quality Control Inspector

27 Jun 2023



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