

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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: | 10206204 |
| 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 | | | | |
|---------------------------------------|----------------------------------|------------|----------------------|--|
| NEB Part Number | 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 | 10191629 | Pass | |

| Assay Name/Specification | Lot # 10206204 |
|--|----------------|
| 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 μ I reaction in OneTaq® Standard Reaction Buffer in the presence of 200 μ M dNTPs and 0.2 μ M 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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| Assay Name/Specification | Lot # 10206204 |
|---|----------------|
| 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 |
| 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 |

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.

Lea Antonpoulos Production Scientis 01 May 2023

Michae

Michael Tonello Packaging Quality Control Inspector 21 Sep 2023

