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New England Biolabs Certificate of Analysis

Product Name: OneTag® Quick-Load® DNA Polymerase

Catalog Number: M0509L 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: 10222505
Expiration Date: 06/2025
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-M0509S/L/X v2.0

| OneTaq® Quick-Load® DNA Polymerase Component List | | | | |
|---|-------------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M0509LVIAL | OneTaq® Quick-Load® DNA Polymerase | 10193705 | Pass | |
| B9022SVIAL | OneTaq® Standard Reaction Buffer | 10191629 | Pass | |
| B0509AVIAL | OneTaq® Quick-Load® Reaction Buffer | 10201233 | Pass | |

| Assay Name/Specification | Lot # 10222505 |
|---|----------------|
| 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® Quick-Load® 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® Quick-Load® DNA Polymerase for 25 cycles of PCR amplification results in the expected 5.0 kb product. | Pass |
| PCR Amplification (5.0 kb Lambda DNA) A 25 μl reaction in OneTaq® Quick-Load® 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® Quick-Load® DNA Polymerase for 25 cycles of PCR amplification results in the expected 5.0 kb product. | Pass |



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

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Lea Antonpoulos Production Scientis

10 Jul 2022 (

Josh Hersey

Packaging Quality Control Inspector

18 Jan 2024

