

New England Biolabs Certificate of Analysis

Product Name: OneTaq[®] Quick-Load[®] 2X Master Mix with Standard Buffer
Catalog Number: M0486S
Concentration: 2 X Concentrate
Packaging Lot Number: 10184598
Expiration Date: 12/2024
Storage Temperature: -20°C
Specification Version: PS-M0486S/L v3.0
Composition (1X): 20 mM Tris-HCl (pH 8.9 @ 25°C), 22 mM KCl, 22 mM NH₄Cl, 1.8 mM MgCl₂, 0.2 mM dATP, 0.2 mM dCTP, 0.2 mM dGTP, 0.2 mM dTTP, 5 % Glycerol, 0.06 % IGEPAL[®] CA-630, 0.05 % Tween[®] 20, 1 X Xylene cyanol, 1 X Tartrazine, 25 units/ml OneTaq[®] DNA Polymerase

OneTaq [®] Quick-Load [®] 2X Master Mix with Standard Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0486SVIAL	OneTaq [®] Quick-Load [®] 2X Master Mix with Standard Buffer	10174290	Pass

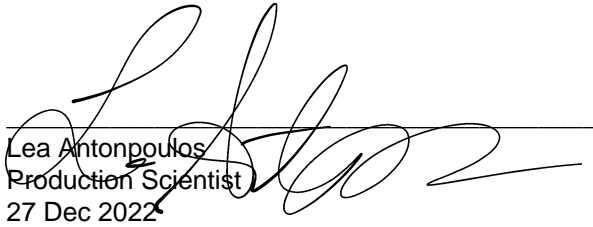
Assay Name/Specification	Lot # 10184598
<p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X OneTaq[®] Quick-Load[®] Master Mix with Standard Buffer containing 1 µg of T3 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>PCR Amplification (5 kb Lambda, Master Mix) A 25 µl reaction in 1X OneTaq[®] Quick-Load[®] Master Mix with Standard Buffer and 0.2 µM primers containing 5 ng Lambda DNA for 25 cycles of PCR amplification results in the expected 5 kb product.</p>	Pass
<p>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[®] Quick-Load[®] 2X Master Mix with Standard Buffer is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.</p>	Pass

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

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Lea Antonopoulos
Production Scientist
27 Dec 2022


Michael Tonello
Packaging Quality Control Inspector
27 Apr 2023