

New England Biolabs Certificate of Analysis

Product Name: OneTaq[®] 2X Master Mix with Standard Buffer
Catalog Number: M0482L
Concentration: 2 X Concentrate
Packaging Lot Number: 10061437
Expiration Date: 08/2021
Storage Temperature: -20°C
Specification Version: PS-M0482S/L v1.0
Composition (1X): 20 mM Tris-HCl (pH 8.9 @ 25°C), 22 mM NH₄Cl, 22 mM KCl, 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, 25 units/ml OneTaq[®] DNA Polymerase

| OneTaq [®] 2X Master Mix with Standard Buffer Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M0482SVIAL | OneTaq [®] 2X Master Mix with Standard Buffer | 10048757 | Pass |

| Assay Name/Specification | Lot # 10061437 |
|--|----------------|
| Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X OneTaq [®] Master Mix with Standard Buffer containing 1 µg of T3 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. | Pass |
| PCR Amplification (5 kb Lambda, Master Mix) A 25 µl reaction in 1X OneTaq [®] 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. | 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 [®] 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. | Pass |

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



Doreen Duquette
Production Scientist
01 Aug 2019



Michael Tonello
Packaging Quality Control Inspector
06 Dec 2019