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New England Biolabs Certificate of Analysis

Product Name: OneTag® 2X Master Mix with Standard Buffer

Catalog Number: M0482L

Concentration: 2 X Concentrate

Lot Number: 10051129
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

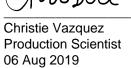
| OneTaq® 2X Master Mix with Standard Buffer Component List | | | | |
|---|--|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M0482SVIAL | OneTag® 2X Master Mix with Standard Buffer | 10048757 | Pass | |

| Assay Name/Specification | Lot # 10051129 |
|--|----------------|
| Non-Specific DNase Activity (16 hour, Buffer) | Pass |
| 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. | |
| PCR Amplification (5 kb Lambda, Master Mix) | Pass |
| A 25 μl reaction in 1X OneTaq® Master Mix with Standard Buffer and 0.2 μM primers | 1 335 |
| containing 5 ng Lambda DNA for 25 cycles of PCR amplification results in the | |
| expected 5 kb product. | |
| RNase Activity (Extended Digestion) | Pass |
| A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA | 1 433 |
| and a minimum of 1 µl of OneTag® 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. | |

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



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Michael Could

Michael Tonello Packaging Quality Control Inspector 25 Sep 2019