

New England Biolabs Certificate of Analysis

Product Name: OneTaq® 2X Master Mix with Standard Buffer
Catalog Number: M0482S
Concentration: 2 X Concentrate
Packaging Lot Number: 10237042
Expiration Date: 04/2026
Storage Temperature: -20°C
Specification Version: PS-M0482S/L v2.0
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	10235242	Pass

Assay Name/Specification	Lot # 10237042
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X OneTaq® 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.	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.

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19 Apr 2024



Michael Tonello
Packaging Quality Control Inspector
23 Apr 2024