

New England Biolabs Certificate of Analysis

Product Name: OneTaq[®] 2X Master Mix with Standard Buffer
Catalog Number: M0482L
Concentration: 2 X Concentrate
Lot Number: 10008731
Expiration Date: 12/2019
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	0161712	Pass

Assay Name/Specification	Lot # 10008731
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.



Lynne Apone
Production Scientist
15 May 2018



Michael Tonello
Packaging Quality Control Inspector
15 May 2018