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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: 10047023
Expiration Date: 01/2021
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

OneTag® 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	10032563	Pass

Assay Name/Specification	Lot # 10047023
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	
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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Christie Vazquez **Production Scientist**

01 Feb 2019

Josh Hersey Packaging Quality Control Inspector

13 Jun 2019