

## 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:** 10088142  
**Expiration Date:** 06/2022  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M0482S/L v2.0  
**Composition (1X):** 20 mM Tris-HCl (pH 8.9 @ 25°C), 22 mM NH<sub>4</sub>Cl, 22 mM KCl, 1.8 mM MgCl<sub>2</sub>, 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	10076364	Pass

Assay Name/Specification	Lot # 10088142
<b>RNase Activity (Extended Digestion)</b> 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
<b>PCR Amplification (5 kb Lambda, Master Mix)</b> 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
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Christie Vazquez*

Christie Vazquez  
Production Scientist  
03 Dec 2020

*Josh Hersey*

Josh Hersey  
Packaging Quality Control Inspector  
03 Dec 2020