

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: One Taq® 2X Master Mix with Standard Buffer

Catalog #: M0482S/L

Concentration: 2X

 Lot #:
 0161712

 Assay Date:
 12/2017

 Expiration Date:
 12/2019

 Storage Temp:
 -20°C

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

Specification Version: PS-M0482S/L v1.0

Effective Date: 11 Dec 2017

Assay Name/Specification (minimum release criteria)	Lot #0161712
Non-Specific DNase Activity (16 hour, Buffer) - A 50 µl reaction in 1X One Taq ® 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 One <i>Taq</i> ® 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 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l of One Taq ® 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

Authorized by Melanie Fortier 11 Dec 2017

nga.
ISO 9001
Registered
Quality





Inspected by
Tony Spear-Alfonso

05 Dec 2017