

New England Biolabs Certificate of Analysis

Product Name: OneTaq[®] 2X Master Mix with Standard Buffer
Catalog #: M0482S/L
Concentration: 2X
Lot #: 0141612
Assay Date: 12/2016
Expiration Date: 12/2018
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: 23 Feb 2017

Assay Name/Specification (minimum release criteria)	Lot #0141612
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



Authorized by
Karen Moreira
23 Feb 2017



Inspected by
Lynne Apone
01 Dec 2016

