

New England Biolabs Certificate of Analysis

Product Name: OneTaq[®] Quick-Load[®] 2X Master Mix with Standard Buffer
Catalog Number: M0486S
Concentration: 2 X Concentrate
Lot Number: 10042531
Expiration Date: 02/2021
Storage Temperature: -20°C
Specification Version: PS-M0486S/L v2.0
Composition (1X): 20 mM Tris-HCl (pH 8.9 @ 25°C), 22 mM KCl, 22 mM NH₄Cl, 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, 1 X Xylene cyanol, 1 X Tartrazine, 25 units/ml OneTaq[®] DNA Polymerase

OneTaq [®] Quick-Load [®] 2X Master Mix with Standard Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0486SVIAL	OneTaq [®] Quick-Load [®] 2X Master Mix with Standard Buffer	10032986	Pass

Assay Name/Specification	Lot # 10042531
<p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X OneTaq[®] Quick-Load[®] 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.</p>	Pass
<p>PCR Amplification (5 kb Lambda, Master Mix) A 25 µl reaction in 1X OneTaq[®] Quick-Load[®] 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.</p>	Pass
<p>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[®] Quick-Load[®] 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.</p>	Pass

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

Christie Vazquez

Christie Vazquez
Production Scientist
08 Feb 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
02 May 2019