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New England Biolabs
Certificate of Analysis

Product Name:	*OneTaq® Quick-Load® 2X Master Mix with Standard Buffer*
Catalog Number:	*M0486L*
Concentration:	*2 X Concentrate*
Packaging Lot Number:	*10191652*
Expiration Date:	*12/2024*
Storage Temperature:	*-20°C*
Specification Version:	*PS-M0486S/L v3.0*
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	10174290	**Pass**

Assay Name/Specification	**Lot # 10191652**
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 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37ºC 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® 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.	**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® Quick-Load® 2X Master Mix with Standard Buffer is incubated at 37ºC. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	**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

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www.neb.com/trademarks for additional information.

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27 Dec 2022

Michael Tonello
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13 Jun 2023