

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: OneTag® Hot Start Quick-Load® 2X Master Mix with Standard Buffer

Catalog Number: M0488L

Concentration: 2 X Concentrate

Packaging Lot Number: 10165613
Expiration Date: 07/2024
Storage Temperature: -20°C

Specification Version: PS-M0488S/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® Hot Start DNA Polymerase

OneTaq® Hot Start Quick-Load® 2X Master Mix with Standard Buffer Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0488SVIAL	OneTaq® Hot Start Quick-Load® 2X Master Mix with Standard Buffer	10158240	Pass	

Assay Name/Specification	Lot # 10165613
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® Hot Start 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.	Pass
PCR Amplification (Hot Start 2 kb Lambda DNA) A 25 μl reaction in OneTaq® Standard Reaction Buffer in the presence of 200 μM dNTPs and 0.2 μM primers containing 10 pg Lambda DNA and 50 ng Human Genomic DNA with 0.625 units of OneTaq® Hot Start DNA Polymerase for 30 cycles of PCR amplification results in an increase in yield of the 2 kb Lambda product and a decrease in non-specific genomic bands when compared to a non-hot start control reaction.	Pass
PCR Amplification (5 kb Lambda, Master Mix) A 25 µl reaction in 1X OneTaq® Hot Start 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
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X OneTaq® Hot Start Quick-Load® Master Mix with Standard Buffer	Pass



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>95% inhibition when compared to a non-hot start control reaction.

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

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Trinh Nguyen
Production Scientist

03 Aug 2022

Michael Tonello

Packaging Quality Control Inspector

19 Oct 2022



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