

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: M0488S

Concentration: 2 X Concentrate

Packaging Lot Number: 10065735 Expiration Date: 07/2021 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	10050625	Pass	

Assay Name/Specification	Lot # 10065735
Inhibition of Primer Extension (Hot Start, Radioactivity Incorporation) A 50 µl primer extension assay in ThermoPol® Reaction Buffer in the presence of 200 µM dNTPs including [³H]-dTTP, containing 15 nM primed single-stranded M13mp18 with 2.5 units of OneTaq® Hot Start DNA Polymerase incubated for 16 hours at 25°C yields >95% inhibition when compared to a non-hot start control reaction.	Pass
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X OneTaq® Hot Start 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 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® 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
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	Pass



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

Christie Vazquez Production Scientist

06 Aug 2019

Michael Tonello

Packaging Quality Control Inspector

03 Mar 2020

