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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: 10076946
Expiration Date: 04/2022
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	10072058	Pass	

Assay Name/Specification	Lot # 10076946
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



M0488L / Lot: 10076946 Page 1 of 2 >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.

Christie Vazquez Production Scientist

23 Jul 2020

Josh Hersey

Packaging Quality Control Inspector

23 Jul 2020

