

New England Biolabs Certificate of Analysis

Product Name: OneTaq[®] Quick-Load[®] 2X Master Mix with GC Buffer
Catalog #: M0487S/L
Concentration: 2X Concentrate
Lot #: 0241705
Assay Date: 05/2017
Expiration Date: 5/2019
Storage Temp: -20°C
Composition (1X): 80 mM Tris-SO₄ (pH 9.2 @ 25°C), 20 mM (NH₄)₂SO₄, 2 mM MgSO₄, 0.2 mM dATP, 0.2 mM dCTP, 0.2 mM dGTP, 0.2 mM dTTP, 5 % Glycerol, 5 % DMSO, 0.06 % IGEPAL[®] CA-630, 0.05 % Tween[®] 20, 1 X Xylene cyanol, 1 X Tartrazine, 25 units/ml OneTaq[®] DNA Polymerase
Specification Version: PS-M0487S/L v1.0
Effective Date: 10 May 2017

Assay Name/Specification (minimum release criteria)	Lot #0241705
Non-Specific DNase Activity (16 hour, Buffer) - A 50 µl reaction in 1X OneTaq [®] Quick-Load [®] Master Mix with GC 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.	Pass
PCR Amplification (Buffer Dependent, >65% GC-rich, Master Mix) - A 25 µl reaction in 1X OneTaq [®] Quick-Load [®] Master Mix with GC Buffer and 0.2 µM primers containing 10 ng Human Genomic DNA for 30 cycles of PCR amplification results in the buffer-dependent production of the 737 bp product.	Pass
PCR Amplification (Enhancer Dependent, >70% GC-rich, Master Mix) - A 25 µl reaction in 1X OneTaq [®] Quick-Load [®] Master Mix with GC Buffer and 20% OneTaq [®] High GC Enhancer in the presence of 0.2 µM primers containing 10 ng Human Genomic DNA for 30 cycles of PCR amplification results in the enhancer-dependent production of the 627 bp 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 GC 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




Authorized by
Karen Moreira
10 May 2017

Inspected by

