

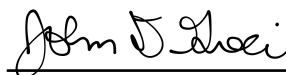
New England Biolabs Certificate of Analysis

Product Name: Exonuclease III (*E. coli*)
Catalog #: M0206S/L
Concentration: 100,000 units/ml
Unit Definition: One unit is defined as the amount of enzyme required to produce 1 nmol of acid-soluble total nucleotide in a total reaction volume of 50 µl in 30 minutes at 37°C in 1X NEBuffer 1 with 0.15 mM sonicated duplex [³H]-DNA.
Lot #: 0341712
Assay Date: 12/2017
Expiration Date: 12/2019
Storage Temp: -20°C
Storage Conditions: 200 mM KCl, 5 mM KPO₄, 0.05 mM EDTA, 5 mM βME, 50 % Glycerol, 200 µg/ml BSA, (pH 6.5 @ 25°C)
Specification Version: PS-M0206S/L v1.0
Effective Date: 06 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0341712
Endonuclease Activity (Nicking) - A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 300 units of Exonuclease III (<i>E. coli</i>) incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) - Exonuclease III (<i>E. coli</i>) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
qPCR DNA Contamination (<i>E. coli</i> Genomic) - A minimum of 100 units of Exonuclease III (<i>E. coli</i>) is screened for the presence of <i>E. coli</i> genomic DNA using SYBR® Green qPCR with primers specific for the <i>E. coli</i> 16S rRNA locus. Results are quantified using a standard curve generated from purified <i>E. coli</i> genomic DNA. The measured level of <i>E. coli</i> genomic DNA contamination is ≤ 1 <i>E. coli</i> genome.	Pass



Authorized by
Derek Robinson
06 Apr 2018



Inspected by
John Greci
13 Dec 2017

