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## New England Biolabs Certificate of Analysis

Product Name: Micrococcal Nuclease

Catalog Number: M0247S

Concentration: 2,000,000 gel U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 15 minutes at 37°C, to the extent that the

accumulation of low molecular DNA fragments is <400 base pairs as

determined by agarose gel electrophoresis.

Packaging Lot Number: 10070019
Expiration Date: 03/2022
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl, 1 mM EDTA, 50 % Glycerol, (pH 7.5 @

25°C)

Specification Version: PS-M0247S v1.0

Micrococcal Nuclease Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
M0247SVIAL	Micrococcal Nuclease	10070018	Pass
B9001SVIAL	Purified BSA	10059427	Pass
B0247SVIAL	Micrococcal Nuclease Buffer	10040436	Pass

Assay Name/Specification	Lot # 10070019
qPCR DNA Contamination (E. coli Genomic) A minimum of 2,000 units of Micrococcal Nuclease is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass
Protein Purity Assay (SDS-PAGE) Micrococcal Nuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Protease Activity (SDS-PAGE) A 20 µl reaction in 1X Micrococcal Nuclease Reaction Buffer containing 24 µg of a standard mixture of proteins and a minimum of 10,000 units of Micrococcal Nuclease incubated for 16 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection.	Pass



M0247S / Lot: 10070019

Page 1 of 2



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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

John Greci Production Scientist

15 Jun 2020

Michael Tonello

Packaging Quality Control Inspector

15 Jun 2020