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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: 10187122
Expiration Date: 04/2025
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 v2.0

Micrococcal Nuclease Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0247SVIAL	Micrococcal Nuclease	10184204	Pass
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10173665	Pass
B0247SVIAL	Micrococcal Nuclease Buffer	10181131	Pass

Assay Name/Specification	Lot # 10187122
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
Protein Purity Assay (SDS-PAGE) Micrococcal Nuclease is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
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



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

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Penghaa Zhang Production Scientist

05 Apr 2023

Michael Tonello

Packaging Quality Control Inspector

01 May 2023