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Tel 978-927-5054
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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:	*10263587*
Expiration Date:	*11/2026*
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	10263586	**Pass**
B9200SVIAL	Recombinant Albumin, Molecular Biology G	10237090	**Pass**
B0247SVIAL	Micrococcal Nuclease Buffer	10235142	**Pass**

Assay Name/Specification	**Lot # 10263587**
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.

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.

Jamie Souza
Production Scientist
09 Dec 2024

Michael Tonello
Packaging Quality Control Inspector
09 Dec 2024