

New England Biolabs Certificate of Analysis

Product Name: NEBNext® dsDNA Fragmentase®
Catalog Number: M0348L
Packaging Lot Number: 10242503
Expiration Date: 10/2025
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 50 mM NaCl, 0.1 mM EDTA, 50 % Glycerol, 0.15 % Triton®X-100, 200 µg/ml BSA, (pH 7.5 @ 25°C)
Specification Version: PS-M0348S/L v1.0

NEBNext® dsDNA Fragmentase® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0348AAVIAL	NEBNext® dsDNA Fragmentase®	10239372	Pass
B0511AAVIAL	MgCl ₂ Solution (200 mM)	10239374	Pass
B0349AAVIAL	NEBNext® dsDNA Fragmentase® Reaction Buffer v2	10239373	Pass

Assay Name/Specification	Lot # 10242503
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl ₂ containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 10 µl of NEBNext® dsDNA Fragmentase® incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass
Protease Activity (SDS-PAGE) A 20 µl reaction in 1X NEBNext® dsDNA Fragmentase Reaction Buffer containing 24 µg of a standard mixture of proteins and a minimum of 10 µl of NEBNext® dsDNA Fragmentase® incubated for 20 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) NEBNext® dsDNA Fragmentase® is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

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Christine Sumner
Production Scientist
20 May 2024



Josh Hersey
Packaging Quality Control Inspector
20 May 2024