

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] dsDNA Fragmentase[®]
Catalog Number: M0348L
Lot Number: 10050537
Expiration Date: 01/2021
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 [®]	10049868	Pass
B0511AAVIAL	MgCl ₂ Solution (200 mM)	10049870	Pass
B0349AAVIAL	NEBNext [®] dsDNA Fragmentase [®] Reaction Buffer v2	10049869	Pass

Assay Name/Specification	Lot # 10050537
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.

Christine Sumner

Christine Sumner
Production Scientist
17 Jul 2019

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
17 Jul 2019