

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] dsDNA Fragmentase[®]
Catalog Number: M0348S
Lot Number: 10025246
Expiration Date: 04/2020
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
M0348AVIAL	NEBNext [®] dsDNA Fragmentase [®]	10025256	Pass
B0511AVIAL	MgCl ₂ Solution (200 mM)	10025258	Pass
B0349AVIAL	NEBNext [®] dsDNA Fragmentase [®] Reaction Buffer v2	10025257	Pass

Assay Name/Specification	Lot # 10025246
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.

Melissa Arn

Melissa Arn
Production Scientist
23 Oct 2018

Josh Hersey

Josh Hersey
Packaging Quality Control Inspector
17 Jan 2019