

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® dsDNA Fragmentase®  
**Catalog Number:** M0348S  
**Packaging Lot Number:** 10077006  
**Expiration Date:** 12/2021  
**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
M0348AVIAL	NEBNext® dsDNA Fragmentase®	10077007	Pass
B0511AVIAL	MgCl <sub>2</sub> Solution (200 mM)	10077009	Pass
B0349AVIAL	NEBNext® dsDNA Fragmentase® Reaction Buffer v2	10077008	Pass

Assay Name/Specification	Lot # 10077006
<b>Phosphatase Activity (pNPP)</b> A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl <sub>2</sub> 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
<b>Protease Activity (SDS-PAGE)</b> 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
<b>Protein Purity Assay (SDS-PAGE)</b> 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  
30 Jun 2020

*Michael Tonello*

---

Michael Tonello  
Packaging Quality Control Inspector  
15 Jul 2020