

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® dsDNA Fragmentase®  
**Catalog Number:** M0348S  
**Packaging Lot Number:** 10213105  
**Expiration Date:** 04/2025  
**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
M0348AVIAL	NEBNext® dsDNA Fragmentase®	10213107	Pass
B0511AVIAL	MgCl <sub>2</sub> Solution (200 mM)	10213109	Pass
B0349AVIAL	NEBNext® dsDNA Fragmentase® Reaction Buffer v2	10213108	Pass

Assay Name/Specification	Lot # 10213105
<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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Christine Sumner*

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Christine Sumner  
Production Scientist  
12 Mar 2024

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
12 Mar 2024