

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® dsDNA Fragmentase®  
**Catalog Number:** M0348L  
**Packaging Lot Number:** 10103088  
**Expiration Date:** 07/2022  
**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®	10098222	Pass
B0511AAVIAL	MgCl <sub>2</sub> Solution (200 mM)	10098224	Pass
B0349AAVIAL	NEBNext® dsDNA Fragmentase® Reaction Buffer v2	10098223	Pass

Assay Name/Specification	Lot # 10103088
<b>Protein Purity Assay (SDS-PAGE)</b> NEBNext® dsDNA Fragmentase® is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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>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

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  
09 Mar 2021

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
09 Mar 2021