New England BioLabs Inc.

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New England Biolabs
Certificate of Analysis

Product Name:	*NEBNext® dsDNA Fragmentase®*
Catalog Number:	*M0348S*
Packaging Lot Number:	*10085237*
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	MgCl2 Solution (200 mM)	10077009	**Pass**
B0349AVIAL	NEBNext® dsDNA Fragmentase® Reaction Buffer v2	10077008	**Pass**

Assay Name/Specification	Lot # 10085237
Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl2 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.

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

nqa. ISO 9001 Registered Quality Management
nqa. ISO 13485 Registered Medical Devices
nqa. ISO 14001 Registered Environmental Management

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Christine Sumner
Production Scientist
16 Sep 2020

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Michael Tonello
Packaging Quality Control Inspector
16 Sep 2020