

New England Biolabs Product Specification

<i>Product Name:</i>	NEBNext [®] dsDNA Fragmentase [®]
<i>Catalog #:</i>	M0348S/L
<i>Concentration:</i>	500 reactions/ml
<i>Shelf Life:</i>	18 months
<i>Storage Temp:</i>	-20°C
<i>Storage Conditions:</i>	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)
<i>Specification Version:</i>	PS-M0348S/L v1.0
<i>Effective Date:</i>	09 Aug 2018

Assay Name/Specification (minimum release criteria)

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.

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.

Protein Purity Assay (SDS-PAGE) - NEBNext[®] dsDNA Fragmentase[®] is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.



Date 09 Aug 2018

Derek Robinson
Director of Quality Control

