NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*NEBNext® dsDNA Fragmentase® Reaction Buffer v2*
Catalog Number:	*B0349S*
Concentration:	*10 X Concentrate*
Lot Number:	*10041665*
Expiration Date:	*02/2020*
Storage Temperature:	*-20°C*
Specification Version:	*PS-B0349S v1.0*
Composition (1X):	*20 mM Tris-HCl, 15 mM MgCl2, 50 mM NaCl, 0.15% Triton®X-100, 0.1 mg/ml BSA, (pH 7.5 @ 25°C)*

NEBNext® dsDNA Fragmentase® Reaction Buffer v2 Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
B0349SVIAL	NEBNext® dsDNA Fragmentase® Reaction Buffer v2	0091802	**Pass**

Assay Name/Specification	Lot # 10041665
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBNext® dsDNA Fragmentase® Reaction Buffer v2 containing 1 µg of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	**Pass**
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext® dsDNA Fragmentase® Reaction Buffer v2 containing 1 µg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
Phosphatase Activity (pNPP, Buffer) A 200 µl reaction in 1M Diethanolamine @ pH 9.8 and 0.5 mM MgCl2 containing 2.5 mM p-Nitrophenyl Phosphate (pNPP) and a minimum of 20 µl NEBNext® dsDNA Fragmentase® Reaction Buffer v2 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, Buffer) A 30 µl reaction in 1X NEBNext® dsDNA Fragmentase® Reaction Buffer v2 incubated with 24 µg of a standard mixture of proteins for 20 hours at 37°C resulted in no proteolytic activity detected by SDS-PAGE.	**Pass**

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This product has been tested and shown to be in compliance with all specifications.

Christine Sumner
Production Scientist
28 Mar 2019

Michael Tonello
Packaging Quality Control Inspector
28 Mar 2019