

New England Biolabs Certificate of Analysis

Product Name: NEBNext® dsDNA Fragmentase® Reaction Buffer v2
Catalog Number: B0349S
Concentration: 10 X Concentrate
Packaging Lot Number: 10177572
Expiration Date: 01/2025
Storage Temperature: -20°C
Specification Version: PS-B0349S v2.0
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	10177573	Pass

Assay Name/Specification	Lot # 10177572
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 or T7 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37°C 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 MgCl ₂ 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

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

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Christine Sumner
Production Scientist
27 Mar 2023



Josh Hersey
Packaging Quality Control Inspector
29 Mar 2023