

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] dsDNA Fragmentase[®] Reaction Buffer v2
Catalog Number: B0349S
Concentration: 10 X Concentrate
Lot Number: 10031018
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 # 10031018
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 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.



Christine Sumner
Production Scientist
29 Nov 2018



Michael Tonello
Packaging Quality Control Inspector
29 Nov 2018