

New England Biolabs Certificate of Analysis


Product Name: NEBNext® dsDNA Fragmentase® Reaction Buffer v2
Catalog Number: B0349S
Concentration: 10 X Concentrate
Packaging Lot Number: 10083895
Expiration Date: 08/2022
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 | 10083896 | Pass |

| Assay Name/Specification | Lot # 10083895 |
|---|----------------|
| 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 |
| 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 |
| 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 |
| 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 |

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

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Christine Sumner
Production Scientist
23 Sep 2020



Josh Hersey
Packaging Quality Control Inspector
15 Jan 2021