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New England Biolabs Certificate of Analysis

Product Name: NEBuffer™ 3.1

Catalog Number: B7203S

Concentration: 10 X Concentrate

Packaging Lot Number: 10070017
Expiration Date: 03/2023
Storage Temperature: -20°C

Specification Version: PS-B7203S v1.0

Composition (1X): 100 mM NaCl, 50 mM Tris-HCl, 10 mM MgCl2, 100 μg/ml BSA, (pH 7.9 @

25°C)

| NEBuffer™ 3.1 Component List | | | | |
|------------------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| B7203SVIAL | NEBuffer™ 3.1 | 10072160 | Pass | |

| Assay Name/Specification | Lot # 10070017 |
|---|----------------|
| Conductivity (buffers/solutions) | Pass |
| The conductivity of 10X NEBuffer 3.1 is between 84 and 101 mS at 25°C. | |
| Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X NEBuffer 3.1 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 |
| Functional Testing (Restriction Digest, Buffer) A 50 µl reaction in 1X NEBuffer 3.1 containing 1 µg of pBC4 DNA and 1 unit of Notl incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis. | Pass |
| Functional Testing (Restriction Digest, Buffer) A 50 µl reaction in 1X NEBuffer 3.1 containing 1 µg of Lambda DNA and 1 unit of Asel incubated for 1 hour at 37°C results in complete digestion of the substrate DNA as determined by agarose gel electrophoresis. | Pass |
| Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBuffer 3.1 containing 1 µg of PhiX174-HaeIII 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 |



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

Michael Dalton

Production Scientist

08 Jun 2020

Michael Tonello

Packaging Quality Control Inspector

08 Jun 2020



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