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New England Biolabs Certificate of Analysis

Product Name: Nt.BbvCl
Catalog Number: R0632L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to convert 1 µg

of supercoiled pUB DNA to open circular form in 1 hour at 37°C in a

total reaction volume of 50 μl.

Packaging Lot Number: 10074138
Expiration Date: 05/2022
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0632S/L v1.0

| Nt.BbvCl Component List | | | | |
|-------------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0632LVIAL | Nt.BbvCl | 10074137 | Pass | |
| B7204SVIAL | CutSmart® Buffer | 10075570 | Pass | |

| Assay Name/Specification | Lot # 10074138 |
|--|----------------|
| Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled pUC19 DNA and a minimum of 30 units of Nt.BbvCl incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis. | Pass |
| Exonuclease Activity (Radioactivity Release) A 50 µI reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 30 units of Nt.BbvCI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 30 Units of Nt.BbvCl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation 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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Penghua Zhang
Production Scientist
13 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

13 Jul 2020