

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

| Product Name: | BstEll |
|------------------------|--|
| Catalog Number: | R0162M |
| Concentration: | 50,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 60°C in a total reaction volume of 50 μ l. |
| Lot Number: | 10030264 |
| Expiration Date: | 11/2020 |
| 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-R0162T/M v1.0 |

| BstEll Component List | | | | |
|-----------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0162MVIAL | BstEll | 10030263 | Pass | |
| B7203SVIAL | NEBuffer™ 3.1 | 10010189 | Pass | |

| Assay Name/Specification | Lot # 10030264 |
|--|----------------|
| Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 3.1 containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 30 units of BstEII incubated for 4 hours at 60°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis. | Pass |
| Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of BstEII incubated for 4 hours at 60°C releases <0.1% of the total radioactivity. | Pass |
| Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BstEII, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BstEII. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 50 Units of BstEII incubated for 16 hours at 60°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.

Mor

Tony Spear-Alfonso Production Scientist 06 Jun 2018

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Michael Tonello Packaging Quality Control Inspector 28 Nov 2018

