BspMI Component List

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>R0502SVIAL</td>
<td>BspMI</td>
<td>10047396</td>
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<tr>
<td>B7203SVIAL</td>
<td>NEBuffer™ 3.1</td>
<td>10041637</td>
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</tbody>
</table>

Assay Name/Specification

Protein Purity Assay (SDS-PAGE)
BspMI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

Non-Specific DNase Activity (16 Hour)
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 2 Units of BspMI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Exonuclease Activity (Radioactivity Release)
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 20 units of BspMI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.

Ligation and Recutting (Terminal Integrity)
After a 10-fold over-digestion of Lambda DNA with BspMI, >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 BspMI.

This product has been tested and shown to be in compliance with all specifications.
Doreen Duquette  
Production Scientist  
05 Apr 2019

Jay Minichiello  
Packaging Quality Control Inspector  
20 Jun 2019