T4 Phage beta-glucosyltransferase 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>S2200SVIAL</td>
<td>Uridine Diphosphate Glucose, 2 mM</td>
<td>10011680</td>
<td>Pass</td>
</tr>
<tr>
<td>M0357LVIAL</td>
<td>T4 Phage β-glucosyltransferase (T4-BGT)</td>
<td>10010997</td>
<td>Pass</td>
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<tr>
<td>B7004SVIAL</td>
<td>NEBuffer™ 4</td>
<td>10012689</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Assay Name/Specification

Endonuclease Activity (Nicking)
A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 units of T4 Phage β-glucosyltransferase (T4-BGT) incubated for 4 hours at 37ºC results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.

Exonuclease Activity (Radioactivity Release)
A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of T4 Phage β-glucosyltransferase (T4-BGT) incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.

Non-Specific DNase Activity (16 Hour)
A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda DNA and a minimum of 100 units of T4 Phage β-glucosyltransferase (T4-BGT) incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

This product has been tested and shown to be in compliance with all specifications.
Mala Samaranayake  
Production Scientist  
05 Jun 2018

Mary Conlon  
Packaging Quality Control Inspector  
20 Jun 2018