Sce PUS1 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>M0526SVIAL</td>
<td>Sce PUS1</td>
<td>10078664</td>
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<tr>
<td>B7201SVIAL</td>
<td>NEBuffer™ 1.1</td>
<td>10065750</td>
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</table>

Assay Name/Specification

### Endonuclease Activity (Nicking)
A 50 µl reaction in NEBuffer 1.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 µl of Sce PUS1 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.

### Protein Purity Assay (SDS-PAGE)
Sce PUS1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

### RNase Activity Assay (4 Hour Digestion)
A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Sce PUS1 is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.

### Functional Testing (Sce PUS1)
A 100 µl reaction in NEBuffer 1.1 containing 85 pmol RNA 5’-AGAGAUCGUUUUGGCAAUCAAAUCGGGAUUCCGGAUA-3’ and 100 pmol Sce PUS1 incubated for 2 hours at 30 °C results in ≥15% conversion of U to pseudoU as determined by nucleoside digestion and mass spectrometry analysis.
This product has been tested and shown to be in compliance with all specifications.

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27 Aug 2020

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27 Aug 2020