Product Name: AbaSI
Catalog Number: R0665S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of T4 wild-type phage DNA (fully ghmC-modified) in 1 hour at 25°C in a total reaction volume of 50 µl.

Packaging Lot Number: 10197877
Expiration Date: 06/2025
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 100 mM KCl, 1 mM DTT, 0.1 mM EDTA, 0.5 % Tween® 20, 0.5 % IGEPAL® CA-630, 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version: PS-R0665S v3.0

AbaSI 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>R0665SVIAL</td>
<td>AbaSI</td>
<td>10197878</td>
<td>Pass</td>
</tr>
<tr>
<td>B6004SVIAL</td>
<td>rCutSmart™ Buffer</td>
<td>10189224</td>
<td>Pass</td>
</tr>
<tr>
<td>B0706SVIAL</td>
<td>10X DTT</td>
<td>10191226</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Assay Name/Specification | Lot # 10197877 |
Endonuclease Activity (Nicking) | Pass |
A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled pBR322 DNA and a minimum of 30 units of AbaSI incubated for 4 hours at 25°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.

Exonuclease Activity (Radioactivity Release) | Pass |
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 AbaSI incubated for 4 hours at 25°C releases <0.1% of the total radioactivity.

Non-Specific DNase Activity (16 Hour) | Pass |
A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 50 units of AbaSI incubated for 16 hours at 25°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Protein Purity Assay (SDS-PAGE) | Pass |

R0665S / Lot: 10197877
Assay Name/Specification | Lot # 10197877
--- | ---
AbaSI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

YunJie Sun  
Production Scientist  
07 Jul 2023

Michael Tonello  
Packaging Quality Control Inspector  
07 Jul 2023