New England Biolabs
Product Specification

Product Name: Trypsin-ultra™, Mass Spectrometry Grade
Catalog #: P8101S
Shelf Life: 12 months
Storage Temp: -20°C
Storage Conditions: Supplied freeze-dried from a sodium acetate and calcium chloride buffer.
Specification Version: PS-P8101S v1.0
Effective Date: 07 Dec 2016

<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Functional Testing (Calcitonin Peptide Digestion)</strong> - A 20 µl reaction in Trypsin-ultra™, Mass Spectrometry Grade Reaction Buffer containing 2 µg of human calcitonin peptide and 0.1 µg of Trypsin incubated for 16 hours at 37°C results in the expected digestion products as determined by LC-MS analysis.</td>
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<tr>
<td><strong>Functional Testing (Cytochrome C Digestion)</strong> - A 20 µl reaction in Trypsin-ultra™, Mass Spectrometry Grade reaction buffer containing 2 µg of Cytochrome C and 0.1 µg of Trypsin incubated for 16 hours at 37°C results in the expected digestion products as determined by LC-MS analysis.</td>
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<tr>
<td><strong>Specific Activity (Fluorometric)</strong> - The specific activity of Trypsin-ultra™, Mass Spectrometry Grade is between 1.8 µmol min⁻¹ mg⁻¹ and 3 µmol min⁻¹ mg⁻¹.</td>
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</tbody>
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Derek Robinson
Director of Quality Control

Date 07 Dec 2016