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 in dry format from a sodium acetate and calcium chloride buffer.
Specification Version: PS-P8101S v2.0
Effective Date: 01 Nov 2021

Assay Name/Specification (minimum release criteria)

**Functional Testing (Calcitonin Peptide Digestion)** - 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.

**Functional Testing (Cytochrome C Digestion)** - 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.

**Specific Activity (Fluorometric)** - 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.

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Derek Robinson
Director, Quality Control

Date 01 Nov 2021