

## New England Biolabs Product Specification

*Product Name:* Trypsin-ultra<sup>™</sup>, 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<sup>™</sup>, 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<sup>™</sup>, 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<sup>™</sup>, Mass Spectrometry Grade is between 1.8 µmol min<sup>-1</sup> mg<sup>-1</sup> and 3 µmol min<sup>-1</sup> mg<sup>-1</sup>.

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