

## New England Biolabs Certificate of Analysis

Product Name: Trypsin-ultra™, Mass Spectrometry Grade  
 Catalog Number: P8101S  
 Packaging Lot Number: 10062892  
 Expiration Date: 09/2020  
 Storage Temperature: -20°C  
 Storage Conditions: Supplied freeze-dried from a sodium acetate and calcium chloride buffer.  
 Specification Version: PS-P8101S v1.0

Trypsin-ultra™, Mass Spectrometry Grade Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P8101SVIAL	Trypsin-ultra™, Mass Spectrometry Grade	10052775	Pass
B8101SVIAL	Trypsin-ultra Reaction Buffer	10059637	Pass

Assay Name/Specification	Lot # 10062892
<b>Functional Testing (Calcitonin Peptide Digestion)</b> 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.	Pass
<b>Functional Testing (Cytochrome C Digestion)</b> 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.	Pass
<b>Specific Activity (Fluorometric)</b> The specific activity of Trypsin-ultra™, 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> .	Pass

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

*Beth M. Paschal*

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Beth Paschal  
Production Scientist  
11 Sep 2019

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
18 Mar 2020