

## New England Biolabs Certificate of Analysis

**Product Name:** Trypsin-ultra™, Mass Spectrometry Grade  
**Catalog Number:** P8101S  
**Lot Number:** 10018438  
**Expiration Date:** 10/2019  
**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	10020492	Pass
B8101SVIAL	Trypsin-ultra Reaction Buffer	0081711	Pass

Assay Name/Specification	Lot # 10018438
<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
<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

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  
10 Oct 2018

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
10 Oct 2018