

## New England Biolabs Certificate of Analysis

**Product Name:** Trypsin-ultra™, Mass Spectrometry Grade  
**Catalog Number:** P8101S  
**Packaging Lot Number:** 10275670  
**Expiration Date:** 01/2026  
**Storage Temperature:** -20°C  
**Storage Conditions:** Supplied in dry format from a sodium acetate and calcium chloride buffer.  
**Specification Version:** PS-P8101S v2.0

Trypsin-ultra™, Mass Spectrometry Grade Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P8101SVIAL	Trypsin-ultra™, Mass Spectrometry Grade	10267453	Pass
B8101SVIAL	Trypsin-ultra Reaction Buffer	10271489	Pass

Assay Name/Specification	Lot # 10275670
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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> .	<b>Pass</b>

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Beth M. Paschal*

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Beth Paschal  
Production Scientist  
21 Jan 2025

*Michael Tonello*

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Michael Tonello  
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22 Jan 2025