

## New England Biolabs Certificate of Analysis

*Product Name:* Trypsin-ultra<sup>™</sup>, Mass Spectrometry Grade  
*Catalog #:* P8101S  
*Lot #:* 0081710  
*Assay Date:* 10/2017  
*Expiration Date:* 10/2018  
*Storage Temp:* -20°C  
*Storage Conditions:* Supplied freeze-dried from a sodium acetate and calcium chloride buffer.  
*Specification Version:* PS-P8101S v1.0  
*Effective Date:* 19 Dec 2016

Assay Name/Specification (minimum release criteria)	Lot #0081710
<b>Functional Testing (Calcitonin Peptide Digestion)</b> - 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.	<b>Pass</b>
<b>Functional Testing (Cytochrome C Digestion)</b> - 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.	<b>Pass</b>
<b>Specific Activity (Fluorometric)</b> - 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> .	<b>Pass</b>



Authorized by  
Derek Robinson  
19 Dec 2016



Inspected by  
Beth Paschal  
08 Nov 2017

