

Certificate of Analysis

Name: Protein Hydrolysate Standard, 2.5 mM
Item: 80-6002-67
Lot: 0006524095

Lot Issue Date: 25-Mar 2020
Expiration Date: 30-Apr 2023

This Reference Material was manufactured and verified on behalf of Biochrom Ltd by a Registered Quality Control laboratory in accordance with the ISO Standards listed below.

The true value and the uncertainty value at the 95% confidence level for each analyte are listed in the table. These were calculated from the gravimetric measurements made during the manufacturing process. All Balances were calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001. Calibrated Class A glassware was used in the manufacturing of these standards.

| Analyte | CAS# | True Value | True Value |
|-------------------|-------------|-------------------|------------|
| Taurine | 000107-35-7 | 0.314 ± 0.002 g/L | 2.51 mM |
| L-Aspartic acid | 000056-84-8 | 0.333 ± 0.002 g/L | 2.50 mM |
| L-Threonine | 000072-19-5 | 0.298 ± 0.001 g/L | 2.50 mM |
| L-Serine | 000056-45-1 | 0.263 ± 0.001 g/L | 2.50 mM |
| L-Glutamic acid | 000056-86-0 | 0.370 ± 0.002 g/L | 2.51 mM |
| L-Proline | 000147-85-3 | 0.289 ± 0.001 g/L | 2.51 mM |
| Glycine | 000056-40-6 | 0.188 ± 0.001 g/L | 2.50 mM |
| L-Alanine | 000056-41-7 | 0.224 ± 0.001 g/L | 2.51 mM |
| L-Valine | 000072-18-4 | 0.293 ± 0.001 g/L | 2.50 mM |
| L-Cystine | 000056-89-3 | 0.301 ± 0.002 g/L | 1.25 mM |
| L-Methionine | 000063-68-3 | 0.373 ± 0.002 g/L | 2.50 mM |
| L-Isoleucine | 000073-32-5 | 0.329 ± 0.002 g/L | 2.51 mM |
| L-Leucine | 000061-90-5 | 0.329 ± 0.002 g/L | 2.51 mM |
| L-Tyrosine | 000060-18-4 | 0.454 ± 0.002 g/L | 2.51 mM |
| L-Phenylalanine | 000063-91-2 | 0.414 ± 0.002 g/L | 2.51 mM |
| Ammonium chloride | 012125-02-9 | 0.134 ± 0.001 g/L | 2.50 mM |
| L-Lysine | 000056-87-1 | 0.366 ± 0.002 g/L | 2.50 mM |
| L-Histidine | 000071-00-1 | 0.388 ± 0.002 g/L | 2.50 mM |
| L-Arginine | 000074-79-3 | 0.438 ± 0.002 g/L | 2.51 mM |

Matrix: 0.1 N Hydrochloric Acid

Quality Certifications.

This Reference Material was prepared by Agilent Technologies Inc., RI, USA, in compliance with the following ISO Standards:

- ISO 9001 Quality Management Systems Requirements (TUV USA Cert. No. 56 100 18560026)
- ISO 17034 General Requirements for the Competence of Reference Material Producers (ANAB Cert. No. AR-1936)
- ISO 17025 General Requirements for the Competence of Testing and Calibration Laboratories (ANAB Cert. No. AT-1937)

(continued)

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Monica Bourgeois
QMS Representative