CERTIFICATE OF ANALYSIS

Amino Acids Calibration Standard - Basics
For Lithium Systems
1700-0175

Product: Amino Acids Calibration Standard - basics
Part Number: 1700-0175
Lot Number: 601013
Production Date: 14 Jan 2016
Expiration Date: 14 Jan 2019

Primary Application: This calibration standard is a solution of 14 amino acids and ammonia in 0.1N Hydrochloric acid. This calibration standard is intended to be used for calibration of chromatographic instrumentation for determination of amino acids.

Acceptance Criteria: The concentrations for 14 amino acids and ammonia are within ± 4% of those stated below. These values are based on the results of HPLC analysis using certified NIST amino acids standard and Sigma amino acids standard.

Compound	Concentrations µM/mL
γ-Amino-butyric acid	2.5
Ammonia	2.5
L-Anserine	2.5
L-Arginine	2.5
L-Carnosine	2.5
Creatinine	2.5
Ethanolamine	2.5
L-Histidine	2.5
L-Homocystine	2.5
D,L&allo-Hydroxylysine	2.5
L-Lysine	2.5
1-Methyl-L-histidine	2.5
3-Methyl-L-histidine	2.5
L-Ornithine	2.5
L-Tryptophan	2.5

Storage Conditions: Keep frozen

Analysis Certified by: Jim Murphy **Date:** February 23, 2016
President
Title

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