



CERTIFICATE OF ANALYSIS

Native Sample Calibration Standard - Basics In 0.1N HCl, 2.5umole/mL 1700-0175

Product: Native Sample Calibration Standard - basics

Part Number: 1700-0175

Lot Number: 612033

Production Date: 19 Jan 2017

Expiration Date: 19 Jan 2020

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 $\pm 4\%$ of those stated below. These values are based on the results of HPLC analysis using certified Sigma amino acids standard.

Compound	Concentrations $\mu\text{M}/\text{mL}$
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

President

Title

Date:

August 1, 2017