

CERTIFICATE OF ANALYSIS

Sodium Calibration Standard For Protein Hydrolysate 012506H

Product: Protein Hydrolysate Standard in Sodium Citrate BufferPart Number:012506HLot Number:805031Production Date:29 May 2018Expiration Date:29 May 2021

Primary Application: This calibration standard is a solution of 18 amino acids and ammonia in 0.27 N sodium citrate buffer, pH 2.2. This calibration standard is intended to be used for calibration of chromatographic instrumentation for determination of amino acids.

Acceptance Criteria: The concentrations for 18 amino acids and ammonia are within ± 4% of those stated below. These values are based on the results of HPLC analysis using certified Sigma amino acids standard and QC certified lot of 012506H.

Compound	Concentrations µM/mL
L-Alanine	0.25
Ammonia	0.25
L-Arginine	0.25
L-Aspartic acid	0.25
L-Cystine	0.25
L-Glutamic acid	0.25
Glycine	0.25
L-Histidine	0.25
L-Isoleucine	0.25
L-Leucine	0.25
L-Lysine	0.25
L-Methionine	0.25
L-Phenylalanine	0.25
L-Proline	0.25
L-Serine	0.25
L-Threonine	0.25
L-Trytophan	0.25
L-Tyrosine	0.25
L-Valine	0.25

Storage Conditions: Keep frozen

Analysis Certified by:

Date:

June 27, 2018

Rev. C, 12/21/2017

Title

Jim Murphy

President