



CALIBRATION STANDARD Specifications & Handling Information

Catalog No. 1700-0170 (5 mL)

Description: Amino Acid Native Sample Standard,
in 0.27 N Lithium Citrate Buffer pH 2.36, without Norleucine
& α -Amino- β -guanidinopropionic Acid, 0.25 μ mole/mL

▪ USAGE

The Native Sample Standard, which is intended to be used to establish relative retention times and response factors, may be diluted to the desired concentration with Pickering's Lithium Sample Diluent (Catalog No. Li220). The calibration standard is a mixture of acidic, neutral, and basic Amino Acids and related compounds. Each mL of solution contains 0.25 μ mol of each component in 0.2 N Lithium Citrate Buffer pH 2.36 with 0.008N Phenol as a preservative.

▪ STORAGE

Although they are stored frozen at the factory, Pickering's calibration standards remain stable when shipped at ambient temperatures. Upon receipt, it is best to divide the standard into aliquots and place them into a freezer immediately (at least -4°C), and store until ready for use. Thaw one aliquot at a time and keep the thawed aliquot in a refrigerator (ca. 4°C). If inconvenient to aliquot the standard upon receipt, freeze vial immediately; then at convenient time thaw and divide standard as directed above. Before opening vial, allow standard to reach room temperature to avoid condensation and possible contamination.

▪ CONSTITUENTS

β -Alanine	L-Cystathionine	L-3-Methylhistidine
L-Alanine	L-Cystine	L-Ornithine
D,L- α -Aminoadipic Acid	Ethanolamine	L-Phenylalanine
L- α -Amino- <i>n</i> -butyric Acid	L-Glutamic Acid	<i>O</i> -Phosphoethanolamine
γ -Amino butyric Acid	Glycine	D,L- <i>O</i> -Phosphoserine
D,L- β -Amino- <i>i</i> -butyric Acid	L-Histidine	L-Proline
Ammonia	D,L-Homocystine	Sarcosine
L-Anserine	<i>cis</i> -4-Hydroxy-L-proline	L-Serine
L-Arginine	D,L & allo-Hydroxylysine	Taurine
L-Asparagine	L-Isoleucine	L-Threonine
L-Aspartic Acid	L-Leucine	L-Tryptophan
L-Carnosine	L-Lysine	L-Tyrosine
L-Citrulline	L-Methionine	Urea
Creatinine	L-1-Methylhistidine	L-Valine