

## Test Mixtures & Standards

### Calibration Standards

- Quantitative and guaranteed
- Each lot tested chromatographically
- Chromatographically-pure starting components

Pickering's Amino Acid Standards have a reputation worldwide for quality and reliability in all post-column systems and methods. Amino Acid Standard mixtures are available for a variety of applications. The standards are in 1 mL vials (5 per pack) in an appropriate citrate buffer or 0.1 N HCl.

Although they are stored frozen at the factory, Pickering's calibration standards remain stable when shipped at ambient temperatures. Upon receipt, however, it is important to place them into a freezer immediately and store frozen until ready for use.



Amino Acid Calibration Standards	
Catalog No.	Description
011006P	Native Sample Standard with Norleucine in Lithium Citrate Buffer, 0.25 µmole/mL, pack (5x1 mL)
012006P	Native Sample Standard without Norleucine in Lithium Citrate Buffer, 0.25 µmole/mL, pack (5x1 mL)
012506C	Collagen Hydrolysate Standard in Sodium Citrate Buffer, 0.25 µmole/mL, Proline and Hydroxyproline 1.25 µmole/mL, pack (5x1 mL)
012506H	Protein Hydrolysate Standard, in Sodium Citrate Buffer, 0.25 µmole/mL, pack (5x1 mL)
1700-0155	Oxidized Feed Hydrolysate Standard in Sodium Citrate Buffer, 0.25 µmole/mL, pack (5x1 mL)
1700-0165	Sodium Amino Acid Standard with Norleucine, 0.25 µmole/mL, pack (5x1 mL)
1700-0170	Native Sample Standard without Norleucine & Alpha-Amino-Beta-Guanidinopropionic Acid in Lithium Citrate Buffer, 0.25 µmole/mL, pack (5x1 mL)
1700-0175	Native Sample Standard, Basics, in 0.1 N HCl, 2.5 µmole/mL, pack (5x1 mL)
1700-0180	Native Sample Standard, Acidics and Neutrals, in 0.1 N HCl, 2.5 µmole/mL, Cystine 1.25 µmole/mL, pack (5x1 mL)
Carbamate Calibration Standards	
1700-0185	Carbamate Internal Standard pack (5x1 mL)
1700-0190	Carbamate Calibration Standard pack (5x1 mL)

### Test Mixtures

- Qualitative mixtures
- For troubleshooting and establishing chromatographic analyte profile only

Test Mixtures	
Catalog No.	Description
1700-0070	Amino Acid Test Mixture in 0.01 N HCl, 0.25 µmole/mL, each (5.0 mL/bottle), L-Cysteic Acid, L-Threonine, L-Serine
1700-0063	Carbamate Test Mixture in Methanol, 2.5 µg/mL, each (5.0 mL/bottle), Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, DMC (4-Bromo-3,5-dimethylphenyl-N-methylcarbamate), Carbaryl, Carbofuran, 3-Hydroxycarbofuran, Methomyl, Methiocarb, 1-Naphthol, Oxamyl, and Propoxur
1700-0080	Glyphosate Test Mixture in Water, 2.5 µg/mL, each (5.0 mL/bottle), Glyphosate, AMPA (Aminoethyl-phosphonic acid)

Test Mixtures & Standards

Calibration Standards for Amino Acid Analysis									
Constituents	1700-0180*	1700-0175*	1700-0170	011006P	012006P	1700-0165	012506C	012506H	1700-0155
Beta-Alanine	•		•	•	•				
Alanine	•		•	•	•	•	•	•	•
D,L-a-Amino-adipic acid	•		•	•	•				
Gamma-Amino butyric acid		•	•	•	•				
Alpha-Amino-n-butyric acid	•		•	•	•				
D,L,b-Amino-i-butyric acid	•		•	•	•				
Alpha-Amino-Beta-guanidinopropionic acid				•	•				
Ammonia		•	•	•	•	•	•	•	•
Anserine		•	•	•	•				
Arginine		•	•	•	•	•	•	•	•
Asparagine	•		•	•	•				
Aspartic acid	•		•	•	•	•	•	•	•
Carnosine		•	•	•	•				
Citrulline	•		•	•	•				
Creatinine		•	•	•	•				
Cystathionine	•		•	•	•				
Cystine	• (1.25)		•	•	•	•	•	•	
Cysteic acid						•			•
Ethanolamine		•	•	•	•				
Glutamic acid	•		•	•	•	•	•	•	•
Glycine	•		•	•	•	•	•	•	•
Histidine		•	•	•	•	•	•	•	•
D,L-Homocystine		•	•	•	•				
L,L & allo-Hydroxylysine		•	•	•	•		•		
4-trans-L-Hydroxyproline	•		•	•	•		• (1.25)		
Isoleucine	•		•	•	•	•	•	•	•
Leucine	•		•	•	•	•	•	•	•
Lysine		•	•	•	•	•	•	•	•
Methionine	•		•	•	•	•	•	•	
Methionine-D,L-sulfoxide							•		
Methionine-D,L-sulfone						•			•
1-Methyl-histidine		•	•	•	•				
3-Methyl-histidine		•	•	•	•				
Norleucine				•		•			
Ornithine		•	•	•	•				
Phenylalanine	•		•	•	•	•	•	•	•
Phosphoethanolamine	•		•	•	•				
Phosphoserine	•		•	•	•				
Proline	•		•	•	•	•	• (1.25)	•	•
Sarcosine	•		•	•	•				
Serine	•		•	•	•	•	•	•	•
Taurine	•		•	•	•	•			
Threonine	•		•	•	•	•	•	•	•
Tryptophan		•	•	•	•	•		•	
Tyrosine	•		•	•	•	•	•	•	
Urea	•		•	•	•				
Valine	•		•	•	•	•	•	•	•

NOTE: Concentration of all the constituents in the Amino Acid standards is 0.25 µmole/mL unless otherwise specified.

\*Concentration of all the constituents is 2.5 µmole/mL unless otherwise specified