

Are you interested in Amino Acid Analysis?

We offer a complete solution:

What you need is your HPLC device and the Pinnacle PCX, the system for post column derivatization, and an application kit. Then you can start your analysis.

Please have a look at this list below and decide what the right standard for your requirements is.

CALIBRATION STANDARDS FOR AMINO ACID ANALYSIS									
CONSTITUENTS	1700-0180*	1700-0175*	011006P	012006P	1700-0150	012506C	012506H	1700-0155	1700-0170
Beta-Alanine	*		*	*					*
Alanine	*		*	*		*	*	*	*
D,L-α-Amino-adipic acid	*		*	*					*
Gamma-Amino butyric acid		*	*	*					*
Alpha-Amino-n-butyric acid	*		*	*					*
D,L,β-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 25 µmole/mL unless otherwise specified

Please choose the kit (column, eluents, reagents, ...) suitable for the selected standard.

Native Samples (Li-Kits):

P/N Standard	Pinnacle PCX (for these kits a column temperature gradient is needed)	For systems without the possibility to use a column temperature gradient
1700-0180	70-min Run 0352-0006 (T100C) 0352-0007 (T200) 0352-0008 (OPA)	95-min Run 0352-0013 (T100C*) 0352-0014 (T200*) 0352-0016 (OPA*) 120-min Run 0352-0015 (T100C) 0352-0011 (T200) 0352-0012 (OPA) 185-min Run AT33SP (T100C) 0352-0033 (T200) AO33SP (OPA)
1700-0175	70-min Run 0352-0006 (T100C) 0352-0007 (T200) 0352-0008 (OPA)	95-min Run 0352-0013 (T100C) 0352-0014 (T200) 0352-0016 (OPA) 120-min Run 0352-0011 (T200) 0352-0012 (OPA) 0352-0015 (T100C) 185-min Run AT33SP (T100C) 0352-0033 (T200) AO33SP (OPA)
011006P		120-min Run 0352-0011 (T200) 0352-0012 (OPA) 0352-0015 (T100C) 185-min Run AT33SP (T100C) 0352-0033 (T200) AO33SP (OPA)
012006P		120-min Run 0352-0011 (T200) 0352-0012 (OPA) 0352-0015 (T100C) 185-min Run AT33SP (T100C) 0352-0033 (T200) AO33SP (OPA)
1700-0170	70-min Run 0352-0006 (T100C) 0352-0007 (T200) 0352-0008 (OPA)	70-min Run 0352-0013 (T100C) 0352-0014 (T200) 0352-0016 (OPA)

Hydrolysates (Na-Kits):

P/N Standard	Pinnacle PCX (for these kits a column temperature gradient is needed)	For systems without the possibility to use a column temperature gradient
012506C Collagen	30-min Run 0352-0061 (T100C) 0352-0062 (T200) 0352-0063 (OPA)	55-min Run 0352-0032 (T200) AT32FC (T100C) AO32FC (OPA)
012506H Protein	30-min Run 0352-0057 (T100C) 0352-0058 (T200) 0352-0059 (OPA)	55-min Run AT31FH (T100C) 0352-0031 (T200) AO31FH (OPA) 60-min Run AT30SH (T100C) 0352-0030 (T200) AO30SH (OPA)
1700-0155 Oxidized feed hydrolysates		30-min Run 0352-0017 (T200) 0352-0018 (T100C)

Others:

1700-0150 for PKU-Detection (Li-Kit)		7-min Run AT35PK (T100C) 0352-0035 (T200)
1700-0070 just a test mixture, nor for analysis		

* T100C: Trione Ninhydrin Reagent

* T200: Trione Two-part Ninhydrin Reagent

* OPA: o-Phthalaldehyde

And here is the overview of what is included in the kits mentioned above:

**Kits for the Analysis of Hydrolysates
With temperature gradient (to be used with Pinnacle PCX)**

Order Number	Description	
0352-0057	30-Min High Efficiency Kit for Protein Hydrolysates	
1154110T	Na+ Ion-Exchange Column	4.6 x 110 mm
1700-3102	Kit, GARD Holder & Cation GARD	2 units
Na315	Na+ Eluent, pH 3.15	4 x 950 mL
Na740	Na+ Eluent, pH 7.40	4 x 950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use (max 3-month shelf life from date of production)	4 x 950 mL
RG011	Na+ Column Regenerant	950 mL
Na220	Na+ Diluent, pH 2.20	4 x 250 mL
012506H	Na+ Calibration Standard for protein hydrolysate, 0.25 µmol/mL	5 mL
0352-0061	30-Min High Efficiency Kit for Collagen Hydrolysates	
Kit identical to 0352-0057, but replaces the standard with:		
012506C	Na+ Calibration Standard for collagen hydrolysate, 0.25 µmol/mL	5 mL
0352-0058	Kit identical to 0352-0057 with T200 replacing T100C	
0352-0062	Kit identical to 0352-0061 with T200 replacing T100C	
T200	TRIONE® Two-part Ninhydrin Reagent, to prepare	4x 900 mL
0352-0059	Kit identical to 0352-0057 with items below replacing T100C	
0352-0063	Kit identical to 0352-0061 with items below replacing T100C	
O120	o-Phthalaldehyde (OPA),	5 g
OD104	OPA Diluent,	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g

**Kits for the Analysis of Hydrolysates
Without temperature gradient**

Order Number	Description	
0352-0018	60-Min High Efficiency Kit for Oxidized Feed Hydrolysates	
1154150T	Na ⁺ Ion-Exchange Column	4.0 x 150 mm
1700-3102	Kit, GARD Holder & Cation GARD	2 unitts
Na270	Na ⁺ Eluent, pH 2.70	4 x 950 mL
Na740	Na ⁺ Eluent, pH 7.40	4 x 950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use	4 x 950 mL
RG011	Na ⁺ Column Regenerant	950 mL
Na220	Na ⁺ Diluent, pH 2.20	4 x 250 mL
1700-0155	Oxidized feed Hydrolysate standard, in 0.27N Sodium citrate buffer pH 2.20; 0.25 µmole/mL	5 mL
0352-0017	Kit identical to 0352-0018 with T200 replacing T100C	
T200	TRIONE® Two-part Ninhydrin Reagent, to prepare (max 12-month shelf life from date of production)	4 x 900 mL
0352-0019	Kit identical to 0352-0018 with OPA replacing T100C	
O120	o-Phthalaldehyde (OPA)	5 g
OD104	OPA Diluent	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g
AT31FH	55-Min High Efficiency Kit for Protein Hydrolysates	
1154150	Na ⁺ Ion-Exchange Column	4.0 x 150 mm
1700-3102	Kit, GARD Holder & Cation GARD	2 unitts
1700-0112	Na ⁺ Eluent, pH 3.15, with 5% Sulfolane	4 x 950 mL
Na740	Na ⁺ Eluent, pH 7.40	4 x 950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use (max 3-month shelf life from date of production)	4 x 950 mL
RG011	Na ⁺ Column Regenerant	950 mL
Na220	Na ⁺ Diluent	4 x 250 mL
012506H	Na ⁺ Calibration Standard for protein hydrolysate, 0.25 µmol/mL	5 mL
AT32FC	55-Min High Efficiency Collagen Hydrolysate Analysis Kit	
Kit identical to AT31FH, but replaces the standard with:		
012506C	Collagen standard, in 0.27 N Sodium citrate buffer pH 2.20; 0.25 µmole/mL, Proline & Hydroxyproline 1.25 µmole/mL	5 mL

0352-0031	Kit identical to AT31FH with T200 replacing T100C	
0352-0032	Kit identical to AT32FC with T200 replacing T100C	
T200	TRIONE® Two-part Ninhydrin Reagent, to prepare (max 12-month shelf life from date of production)	4 x 900 mL
AO31FH	Kit identical to AT31FH with items below replacing T100C	
AO32FC	Kit identical to AT32FC with items below replacing T100C	
O120	o-Phthalaldehyde (OPA)	5 g
OD104	OPA Diluent	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g
AO30SH	Standard 60 Minute Protein Hydrolysate Analysis Kit; contains:	
1193250	Na+-Ion-Exchange Column & 1700-0070 AA test mixture	3.0 x 250 mm
1192020	Guard Column, for 1193250 Column, above	
Na328	Na+-Eluent, pH 3.28	
Na740	Na+-Eluent, pH 7.40	
O120	o-Phthalaldehyde (OPA), chromatographic grade	5 g
OD104	OPA Diluent, chromatographic grade, amino acid analysis	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g
RG011	Na+-Column Regenerant	
Na220	Na+-Diluent, pH 2.20	
012506H	Na+-Calibration Standard, for protein hydrolysate, 0.25 µmol/mL	5 mL
0101-0004	Amino Acid Analysis Application Manual	
1193250	Na+-Ion-Exchange Column & 1700-0070 AA test mixture	3.0 x 250 mm
1192020	Guard Column, for 1193250 Column, above	

**Kits for the Analysis of Physiologic Fluids and Native Samples
With temperature gradient**

Order Number	Description	
0352-0006	70-min Physiologic Fluid/Native Sample Analysis Kit	
0354675T	Li+ Ion-Exchange Column & 1700-0070 AA test mix	4.6 x 75 mm
1700-3102	Kit, GARD Holder & Cation GARD	2 units
1700-1125	Li+ Eluent, pH 2.80	4 x 950 mL
Li220	Li+ Eluent, pH 2.20	4 x 950 mL
Li365	Li+ Eluent, pH 3.65	4 x 950 mL

Li375	Li+ Eluent, pH 3.75	4 x 950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use	4 x 950 mL
RG003	Li+ Column Regenerant	950 mL
SP100	SERAPREP™	250 mL
UP100	URIPREP™	250 mL
1700-0170	Li+ Calibration Standard, without Norleucin and alpha-Amino-β-guanidinopropionic acid, Physiologic fluid, 0.25 μmole/mL	5ml
0352-0007	Kit identical to 0352-0006 with T200 replacing T100C	
T200	TRIONE® Two-part Ninhydrin Reagent, to prepare	4 x 900 mL
0352-0008	Kit identical to 0352-0006 with items below replacing T100C	
O120	o-Phthalaldehyde (OPA)	5 g
OD104	OPA Diluent	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g
0352-0013	95-Min High Efficiency Kit for Physiologic Fluid/Native Sample Anal.	
0354100T	Li+ Ion-Exchange Column & 1700-0070 AA Test Mixture	4.0 x 100 mm
1700-3102	Kit, GARD Holder & Cation GARD	2 untits
Li220	Li+ Diluent, pH 2.20	4 x 250 mL
1700-1125	Li+ Eluent, pH 2.80	4 x 950 mL
Li365	Li+ Eluent, pH 3.65	4 x 950 mL
Li375	Li+ Eluent, pH 3.75	4 x 950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use (max 3-month shelf life from date of production)	4 x 950 mL
RG003	Li+ Column Regenerant	950 mL
1700-0170	Li+ Calibration Standard, without Norleucin and alpha-Amino-β-guanidinopropionic acid Physiologic Fluid, 0.25 μmole/mL	5 mL
SP100	SERAPREP™	250 mL
UP100	URIPREP™	250 mL
0101-0004	Amino Acid Analysis Application Manual	
0352-0014	Kit identical to 0352-0013 with T200 replacing T100C	
T200	TRIONE® Two-part Ninhydrin Reagent, to prepare (max 12-month shelf life from date of production)	4 x 900 mL

0352-0016	Kit identical to 0352-0013 with items below replacing T100C	
O120	α -Phthalaldehyde (OPA)	5 g
OD104	OPA Diluent	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g
AT33SP		
Standard 185 Minutes Physiologic Fluid/Native Sample Analysis Kit; contains:		
0393250	Li+-Ion-Exchange Column & 1700-0070 AA test mixture	3.0 x 250 mm
0392020	Guard Column, for 0393250, above	2.0 x 20 mm
Li275	Li+-Eluent, pH 2.75	4 x 950 mL
Li750	Li+-Eluent, pH 7.50	4 x 950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use (max 3 month shelf life from date of production)	4 x 950 mL
RG003	Li+-Column Regenerant	950 mL
Li220	Li+ - Diluent, pH 2.20	4 x 250 mL
011006P	Li+-Calibration Standard, w/Norleu Physiologic Fluid, 0,25µmole/ml	5 mL
SP100	SERAPREP™	250 mL
UP100	URIPREP™	250 mL
0352-0033		
Kit identical to AT33SP with T200 replacing T100C		
T200	TRIONE® Two-part Ninhydrin Reagent to prepare (max 12 month shelf life from date of production)	4 x 900 mL
AO33SP		
Kit identical to AT33SP with items below replacing T100C		
O120	α -Phthalaldehyde (OPA), chromatographic grade	5 g
OD104	OPA Diluent, chromatographic grade, amino acid analysis	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g

**Kits for the Analysis of Physiologic Fluids and Native Samples
Without temperature gradient:**

Order Number	Description	
0352-0015	120-Min High Efficiency Kit for Physiologic Fluid/Native Sample Anal.	
0354100T	Li+ Ion-Exchange Column	4.0 x 100 mm
1700-3102	Kit, GARD Holder & Cation GARD	2 untits
Li220	Li+ Diluent, pH 2.20	4 x 250 mL
Li275	Li+ Eluent, pH 2.75	4 x 950 mL

Li750	Li+ Eluent, pH 7.50	4 x 950 mL
RG003	Li+ Column Regenerant	950 mL
T100C	TRIONE® Ninhydrin Reagent, ready to use	4x950 mL
011006P	Li+ Calibration Standard, w/Norleu Physiologic Fluid, 0.25 µmole/mL	5 mL
SP100	SERAPREP™	250 mL
UP100	URIPREP™	250 mL
0352-0011	Kit identical to 0352-0015 with T200 replacing T100C	
T200	TRIONE® Two-part Ninhydrin Reagent, to prepare (max 12-month shelf life from date of production)	4 x 900 mL
0352-0012	Kit identical to 0352-0015 with items below replacing T100C	
O120	o-Phthalaldehyde (OPA), chromatographic grade	5 g
OD104	OPA Diluent, chromatographic grade, amino acid analysis	4 x 950 mL
3700-2000	Thiofluor™ (2 each per kit)	10 g
AT35PK	High Efficiency Kit (7 minutes) for Physiologic Fluid	
0354050	Analytical Cation-exchange Column, Li ⁺ form	4.0 x 50mm
1700-3102	Kit, GARD Holder & Cation GARD	2 unts
T100C	TRIONE® Ninhydrin Reagent	4 x 900 mL
Li357	Lithium Eluent, pH 3.57	4 x 950 mL
RG003	Column Regenerat, Li ⁺ form	950 mL
Li220	Sample Diluent, Li ⁺ form, pH 2.20	4 x 250 mL
1700-0150	Calibration Standard (Ileu, Leu, Met, Tyr, Phe), 0.25 µMol/mL	5 mL
0352-0035	Kit identical to AT35PK with T200 replacing T100C	
T200	TRIONE® two-part Ninhydrin to prepare	4 x 900 mL