

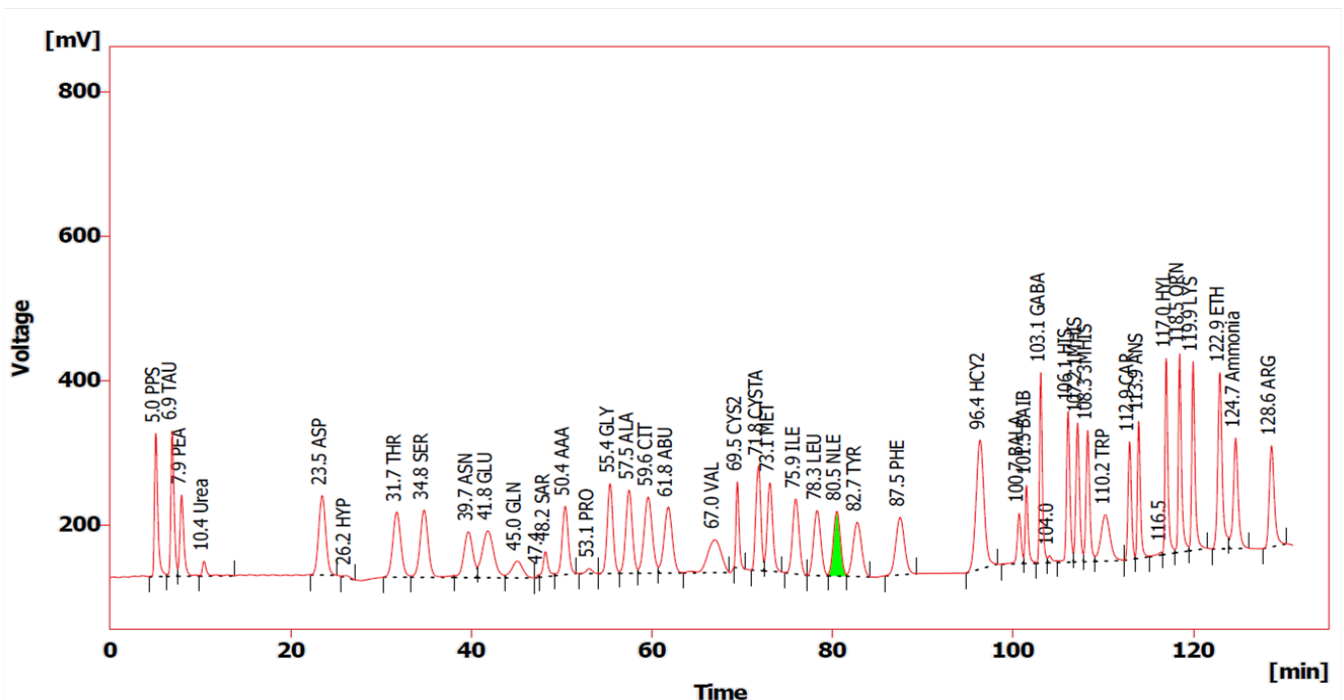
APPLICATION NOTE



Physiological High Resolution

Equipment	ARACUS
Column	Lithium system, 125 mm BL x 4.0 mm ID Ammonium Absorber, 40 mm x 2.0 mm ID
Eluents.....	Lithium system; Eluent A to F
Runtime	158 min
Analysis Runtime	131 min
Gradient	Program in Steps
Eluent Flow.....	240 µl/min
Column Temperature	30 °C to 70 °C
Injection Volume	20 µl
Reagent	Ninhydrin (Post-Column Derivatization)
Reagent Flow.....	120 µl/min
Reactor Temperature	130 °C
Detection	Visible – 570 nm (Channel A) / 440 nm (Channel B)
Sample.....	Physiological Standard

Standard Solution with 100 nmol/ml (570nm)



APPLICATION NOTE

Physiological High Resolution



No.	Retentiontime [min]	Amino Acid	code
1	5.0	Phosphoserine	PPS
2	6.9	Taurine	TAU
3	7.9	Phosphoethanolamine	PEA
4	10.4	Urea	Urea
5	23.5	Aspartic Acid	ASP
6	26.2	Hydroxyproline	HYP
7	31.7	Threonine	THR
8	34.8	Serine	SER
9	39.7	Asparagine	ASN
10	41.8	Glutamic Acid	GLU
11	45.0	Glutamine	GLN
12	48.2	Sarcosine	SAR
13	50.4	α -Aminoadipic Acid	AAA
14	53.1	Proline	PRO
15	55.4	Glycine	GLY
16	57.5	Alanine	ALA
17	59.6	Citrulline	CIT
18	61.8	α -Aminobutyric Acid	ABU
19	67.0	Valine	VAL
20	69.5	Cystine	CYS2
21	71.8	Cystathionine	CYSTA
22	73.1	Methionine	MET

No.	Retentiontime [min]	Amino Acid	code
23	75.9	Isoleucine	ILE
24	78.3	Leucine	LEU
25	80.5	Norleucine	NLE
26	82.7	Tyrosine	TYR
27	87.5	Phenylalanine	PHE
28	96.4	Homocystine	HCYS2
29	100.7	β -Alanin	BALA
30	101.5	β -Aminoisobutyric Acid	BAIB
31	103.1	G Aminobutyric Acid	GABA
32	106.1	Histidine	HIS
33	107.2	1-Methyl-Histidine	1MHIS
34	108.3	3-Methyl-Histidine	3MHIS
35	110.2	Tryptophan	TRP
36	112.9	Carnosine	CAR
37	113.9	Anserine	ANS
38	117.0	Hydroxylysine	HLYS
39	118.5	Ornithine	ORN
40	119.9	Lysine	LYS
41	122.9	Ammonium Chloride	Ammonia
42	124.7	Ethanolamine	ETH
43	128.6	Arginine	ARG