

Specification Amino Acid Analyzer



Customer Information	
Customer	
Contact Person	
Street	
Postal code /city	
Country	
Phone	
E-Mail	
<i>to be completed by membraPure GmbH</i>	
Project number	
Customer number	

Device Configuration		
Pump(s)	<input type="checkbox"/> Single	<input type="checkbox"/> Dual <small>(e.g. for OPA)</small>
Data Handling	<input type="checkbox"/> AminoPeak	<input type="checkbox"/> Clarity
Injection	<input type="checkbox"/> Autosampler	<input type="checkbox"/> Manual <small>*(upgrade Autosampler is possible)</small>
<i>we recommend an autosampler</i>		
Range of concentration	<input type="checkbox"/> < 1 nmol / ml	<input type="checkbox"/> > 1 nmol / ml

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Optional Configuration	
<input type="checkbox"/>	Inert gas
<input type="checkbox"/>	Level control
<input type="checkbox"/>	OPA (fluorescence detector) upgrade is possible for Dual-Pump systems
<input type="checkbox"/>	Stainless steel dumping unit
<input type="checkbox"/>	Purge valve
<input type="checkbox"/>	IQ / OQ (only Clarity)

Chemical Configuration	
<input type="checkbox"/>	Lithium System (physiological) <i>(see page 3 and 4)</i>
<input type="checkbox"/>	Physiological
<input type="checkbox"/>	short Programs for Clinics (e.g. PKU, MSUD)
<input type="checkbox"/>	Pharmacopeia
<input type="checkbox"/>	Hydrolysate <small><i>*(if this the only method you need we recommend sodium system)</i></small>
<input type="checkbox"/>	IVD
<input type="checkbox"/>	Sodium System (Feedstuff) <i>(see page 5 and 6)</i>
<input type="checkbox"/>	Hydrolysate
<input type="checkbox"/>	Feedstuff
<input type="checkbox"/>	Collagen
<input type="checkbox"/>	Amino sugar
<input type="checkbox"/>	Potassium System (Biogenic Amines) <i>(see page 7)</i>
<input type="checkbox"/>	Biogenic Amines

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Application Information				
Lithium system				
Runtime (Data Acquisition)	High Speed	High Resolution		Adv. PLUS
	~60 min* <input type="checkbox"/>	~100 min* <input type="checkbox"/>	~120 min* <input type="checkbox"/>	> 120 min* <input type="checkbox"/>

No.	Amino Acid	code	needed
1	1-Methyl-Histidine	1MHIS	<input type="checkbox"/>
2	3-Methyl-Histidine	3MHIS	<input type="checkbox"/>
3	5-Hydroxytryptophan	5HTP	<input type="checkbox"/>
4	α -Aminoadipic Acid	AAA	<input type="checkbox"/>
5	α -Aminobutyric Acid	ABU	<input type="checkbox"/>
6	Aminoethylcysteine	AEC	<input type="checkbox"/>
7	Aspartylglucosamine	AGU	<input type="checkbox"/>
8	Allo-Isoleucine	AILE	<input type="checkbox"/>
9	Alanine	ALA	<input type="checkbox"/>
10	Aminolevulinic acid	ALEVA	<input type="checkbox"/>
11	Ammonium Chloride	Ammonia	<input type="checkbox"/>
12	Anserine	ANS	<input type="checkbox"/>
13	Arginine	ARG	<input type="checkbox"/>
14	Argininosuccinic	ASA	<input type="checkbox"/>
15	Succinic anhydride	ASA-	<input type="checkbox"/>
16	Asparagine	ASN	<input type="checkbox"/>
17	Aspartic Acid	ASP	<input type="checkbox"/>
18	β -Aminoisobutyric	BAIB	<input type="checkbox"/>
19	b-Alanin	BALA	<input type="checkbox"/>
20	Carnosine	CAR	<input type="checkbox"/>
21	Homocystein-	CHD	<input type="checkbox"/>
22	Citrulline	CIT	<input type="checkbox"/>
23	Cysteine	CYS	<input type="checkbox"/>
24	Cystine	CYS2	<input type="checkbox"/>
25	Ethanolamine	ETH	<input type="checkbox"/>
26	γ -Aminobutyric Acid	GABA	<input type="checkbox"/>
27	Glutamine	GLN	<input type="checkbox"/>
28	Glutamic Acid	GLU	<input type="checkbox"/>
29	Glucosaminic Acid	GLUA	<input type="checkbox"/>
30	Glycine	GLY	<input type="checkbox"/>
31	Glutathione (red.)	GSH	<input type="checkbox"/>
32	Glutathione (ox.)	GSSG	<input type="checkbox"/>
33	Homocarnosine	HCAR	<input type="checkbox"/>
34	Homocitrullin	HCIT	<input type="checkbox"/>

No.	Amino Acid	code	needed
35	Homocysteine	HCY	<input type="checkbox"/>
36	Homocystine	HCYS2	<input type="checkbox"/>
37	Histidine	HIS	<input type="checkbox"/>
38	Homoleucine	HLEU	<input type="checkbox"/>
39	Hydroxylysine	HYL	<input type="checkbox"/>
40	Hydroxyproline	HYP	<input type="checkbox"/>
41	Isoleucine	ILE	<input type="checkbox"/>
42	Kynurenine	KYN	<input type="checkbox"/>
43	Leucine	LEU	<input type="checkbox"/>
44	Lysine	LYS	<input type="checkbox"/>
45	Methionine	MET	<input type="checkbox"/>
46	Norleucine	NLE	<input type="checkbox"/>
47	Ornithine	ORN	<input type="checkbox"/>
48	Phosphoethanolamine	PEA	<input type="checkbox"/>
49	Phenylalanine	PHE	<input type="checkbox"/>
50	Pipecolic Acid	PIP	<input type="checkbox"/>
51	Phosphoserine	PPS	<input type="checkbox"/>
52	Proline	PRO	<input type="checkbox"/>
53	Saccaropine	SAC	<input type="checkbox"/>
54	Sarcosine	SAR	<input type="checkbox"/>
55	Serine	SER	<input type="checkbox"/>
56	Sulfocysteine	SULFO	<input type="checkbox"/>
57	Taurine	TAU	<input type="checkbox"/>
58	Threonine	THR	<input type="checkbox"/>
59	Tryptophan	TRP	<input type="checkbox"/>
60	Tyrosine	TYR	<input type="checkbox"/>
61	Urea	Urea	<input type="checkbox"/>
62	Valine	VAL	<input type="checkbox"/>
63	Vitamin U	Vitamin	<input type="checkbox"/>
<i>other amino acids</i>			
1*			
2*			
3*			
4*			

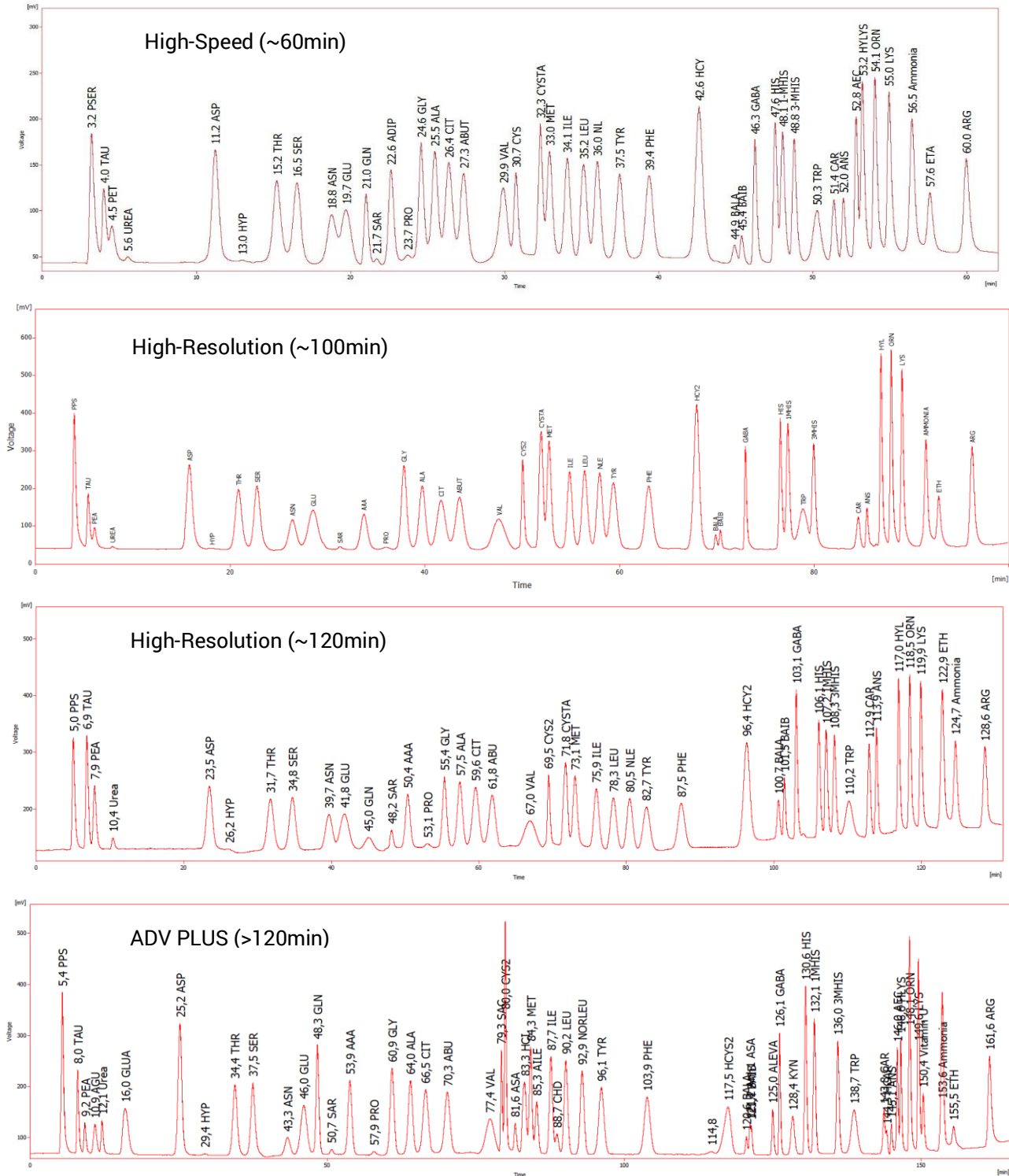
we will gladly provide you with information on existing applications

**see attach standard chromatograms*

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Attachments Lithium-System:



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Application Information			
Sodium System			
Runtime (Data Aquisition)	High Speed ~25 min* <input type="checkbox"/>	High Resolution ~50 min* <input type="checkbox"/>	Advanced ~70 min* <input type="checkbox"/>

No.	Amino Acid	code	needed
1	Alanine	ALA	<input type="checkbox"/>
2	Ammonium	Ammonia	<input type="checkbox"/>
3	Anserine	ANS	<input type="checkbox"/>
4	Arginine	ARG	<input type="checkbox"/>
5	Asparagine	ASN	<input type="checkbox"/>
6	Aspartic Acid	ASP	<input type="checkbox"/>
7	b-Alanin	BALA	<input type="checkbox"/>
8	Cystine	CYS2	<input type="checkbox"/>
9	Cystine acid	CYS-Ox	<input type="checkbox"/>
10	Glutamic Acid	GLU	<input type="checkbox"/>
11	Glucosamin	GlucosNH	<input type="checkbox"/>
12	Galactosamin	GalactosNH	<input type="checkbox"/>
13	Glycine	GLY	<input type="checkbox"/>
14	Histidine	HIS	<input type="checkbox"/>
15	Hydroxylysine	HYL	<input type="checkbox"/>
16	Hydroxyproline	HYP	<input type="checkbox"/>
17	Isoleucine	ILE	<input type="checkbox"/>
18	Leucine	LEU	<input type="checkbox"/>
19	Lysine	LYS	<input type="checkbox"/>

No.	Amino Acid	code	needed
20	Methionine	MET	<input type="checkbox"/>
21	Methioninsulfon	MET-OX	<input type="checkbox"/>
22	Methionin sulfoxid	MET-SOX	<input type="checkbox"/>
23	Norleucine	NLE	<input type="checkbox"/>
24	Ornithine	ORN	<input type="checkbox"/>
25	Phenylalanine	PHE	<input type="checkbox"/>
26	Proline	PRO	<input type="checkbox"/>
27	Serine	SER	<input type="checkbox"/>
28	Taurine	TAU	<input type="checkbox"/>
29	Threonine	THR	<input type="checkbox"/>
30	Tryptophan	TRP	<input type="checkbox"/>
31	Tyrosine	TYR	<input type="checkbox"/>
32	Valine	VAL	<input type="checkbox"/>
<i>other amino acids</i>			
1*			
2*			
3*			
4*			
5*			

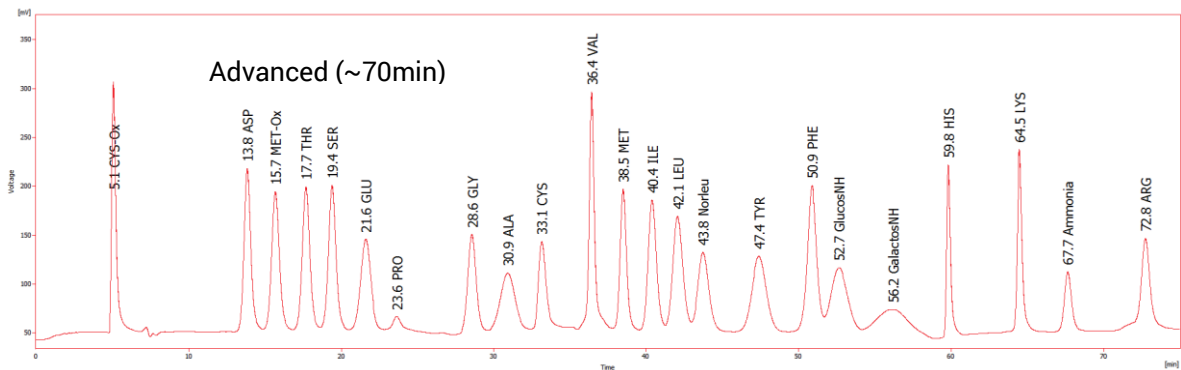
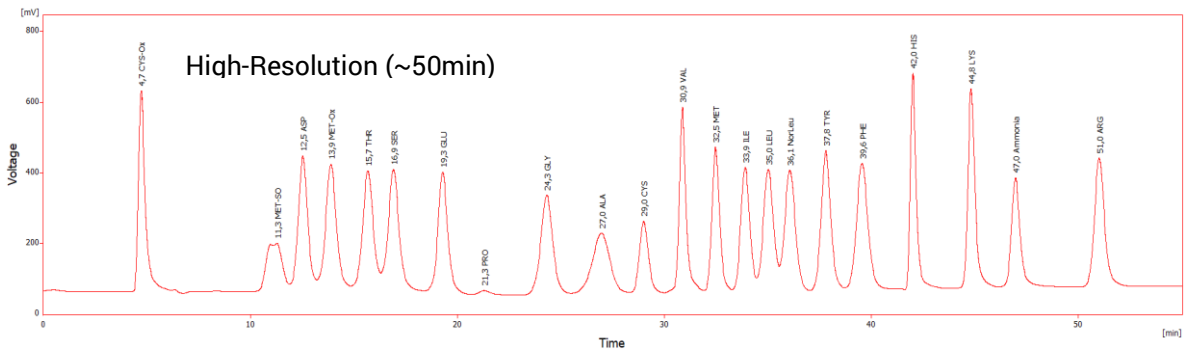
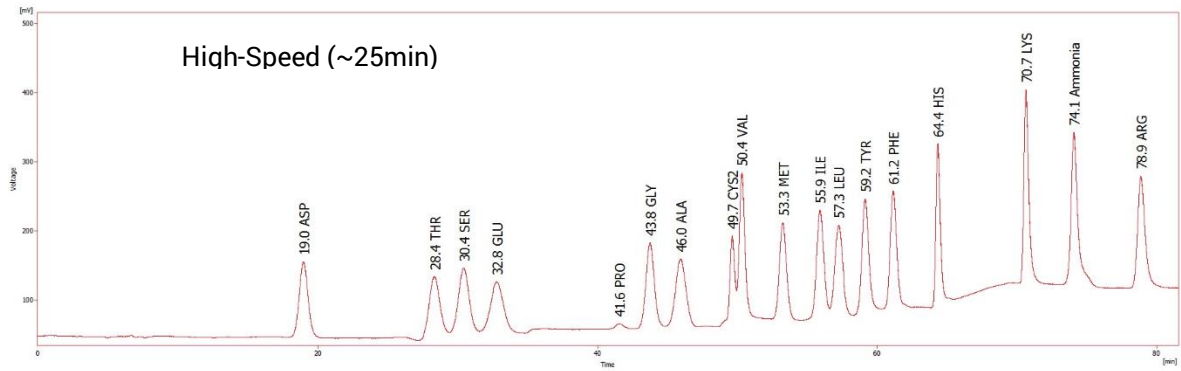
we will gladly provide you with information on existing applications

**see attach standard chromatograms*

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Attachments Sodium-System:



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Application Information	
Potassium System	
Runtime (Data Aquisition)	Biogenic Amines
	~ 40 min* <input type="checkbox"/>

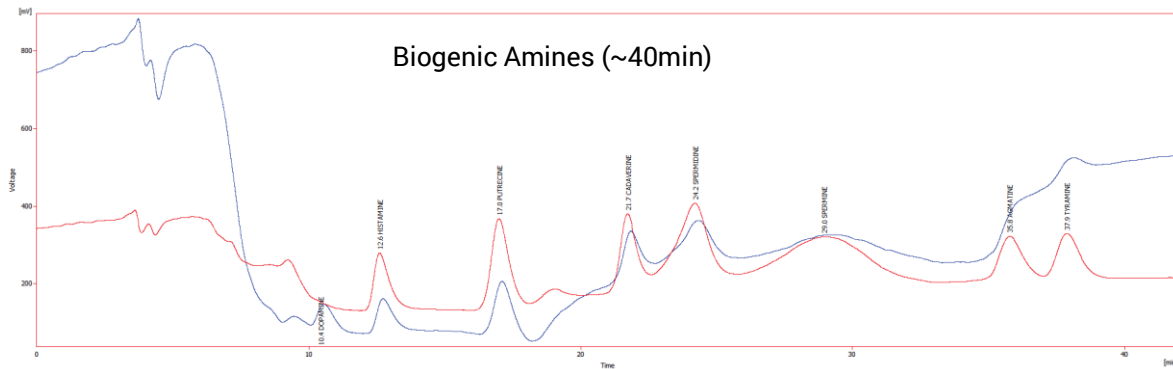
No.	Amino Acid	needed
1	Agmatine	<input type="checkbox"/>
2	Cadaverine	<input type="checkbox"/>
3	Dopamine	<input type="checkbox"/>
4	Histamine	<input type="checkbox"/>

No.	Amino Acid	needed
5	Putrescine	<input type="checkbox"/>
6	Spermidine	<input type="checkbox"/>
7	Spermin	<input type="checkbox"/>
8	Tyramine	<input type="checkbox"/>

we will gladly provide you with information on existing applications

*see attach standard chromatograms

Attachment Potassium-System:



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Additional Arrangements		
IQ / OQ (<i>only Clarity</i>)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
installation by a technician from <i>membraPure GmbH</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
System Training at <i>membraPure GmbH</i> side	Yes <input type="checkbox"/>	No <input type="checkbox"/>
System Training at Customer side	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Others:		

The device complied above corresponds to the concept of the <i>customer</i> and the possibilities of the company <i>membraPure GmbH</i>		
Date	Signature Customer	Signature membraPure GmbH