Specification
Amino Acid Analyzer

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

Device Configuration		
Pump(s)	☐ Single	☐ Dual *(e.g.for OPA)*
Data Handling	☐ AminoPeak	☐ Clarity
Injection	☐ Autosampler	☐ Manual *(upgrate Autosampler is possible)
we recommend an autosampler		
Range of concentration	☐ < 1 nmol / ml	☐ > 1 nmol / ml

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Optional Configuration	
☐	Inert gas
☐	Level control
☐	OPA (fluorescence detector) upgrade is possible for Dual-Pump systems
☐	Stainless steel dumping unit
☐	Purge valve
☐	IQ / OQ (only Clarity)

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

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Application Information				
Lithium system				
Runtime (Data Acquisition)	High Speed	High Resolution		Adv. PLUS
	~60 min* ☐	~100 min* ☐	~120 min* ☐	> 120 min* ☐

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

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

we will gladly provide you with information on existing applications

**see attach standard chromatograms*

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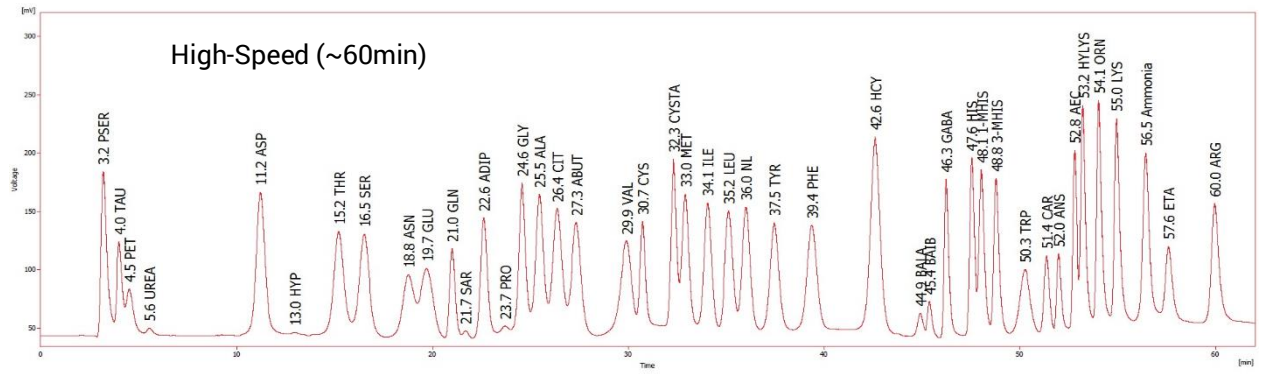
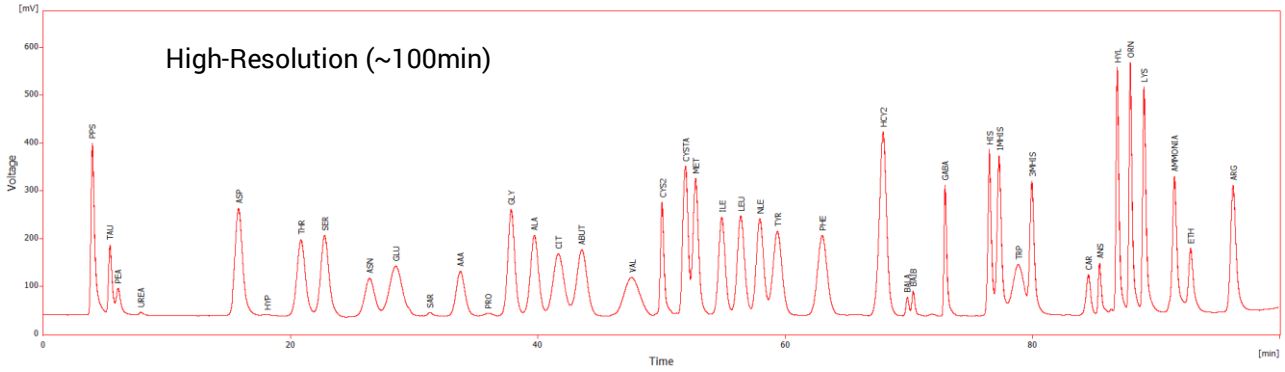
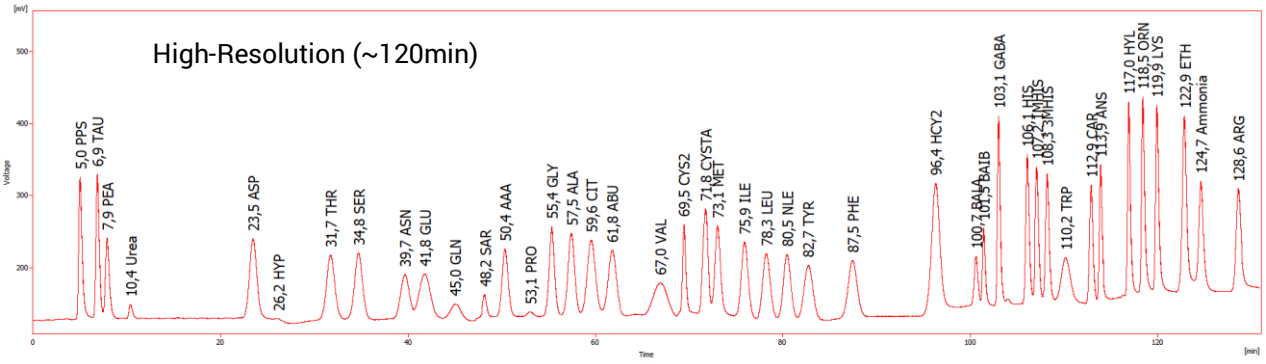
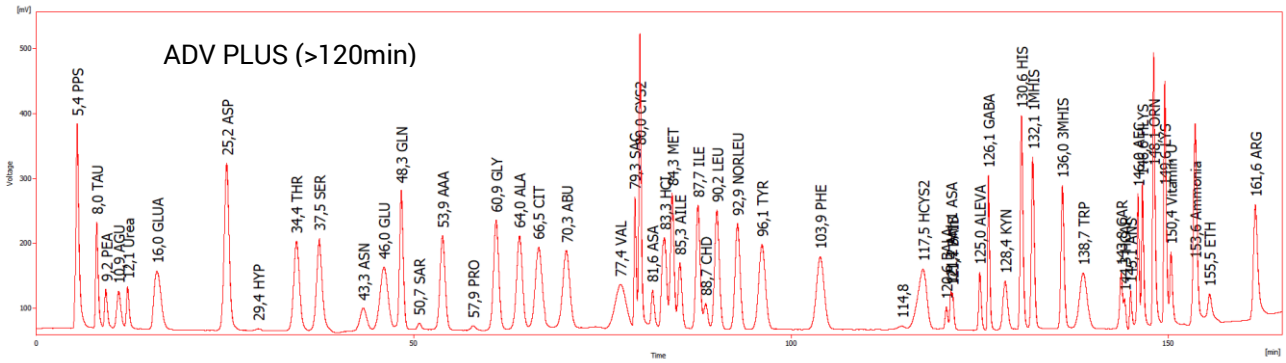
Attachments Lithium-System:









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Application Information			
Sodium System			
Runtime (Data Aquisation)	High Speed	High Resolution	Advanced
	~25 min* ☐	~50 min* ☐	~70 min* ☐

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

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

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**see attach standard chromatograms*

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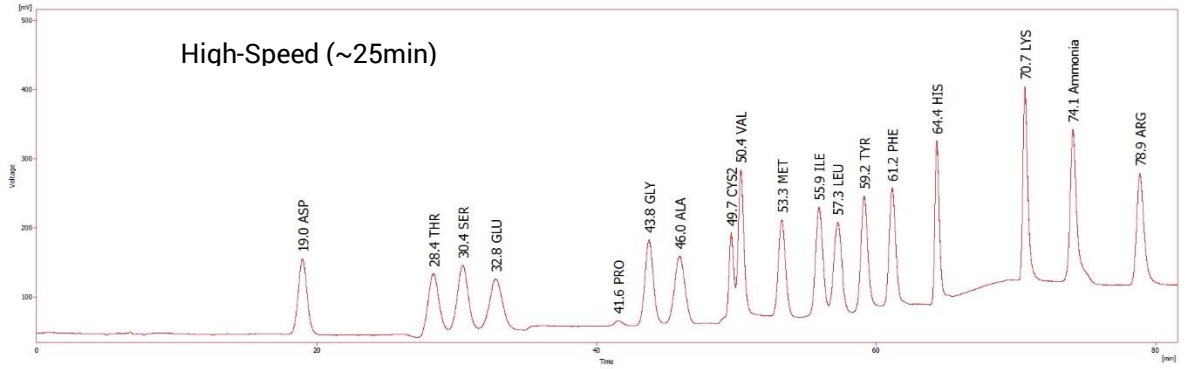
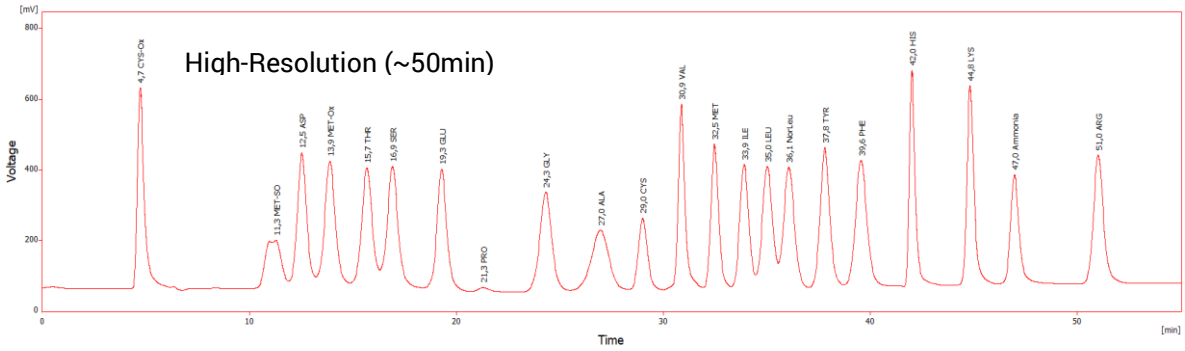
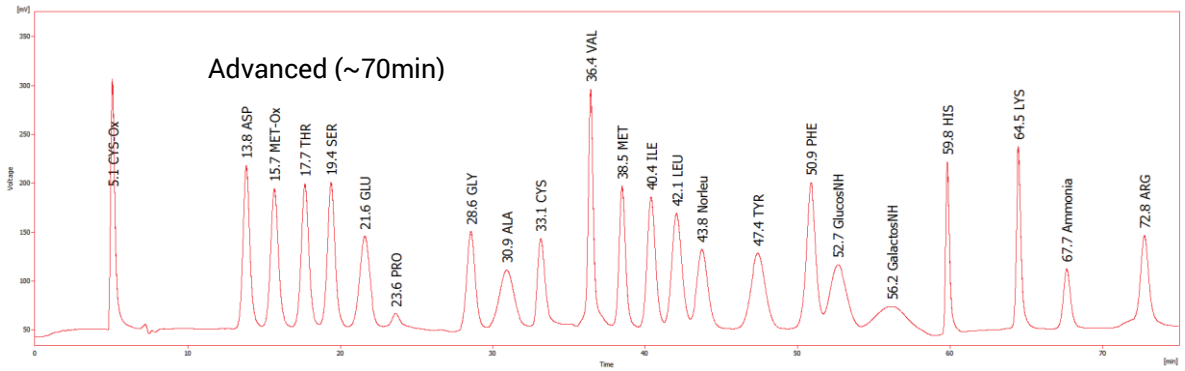
Attachments Sodium-System:







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Application Information	
Potassium System	
Runtime (Data Aquisation)	Biogenic Amines
	~ 40 min* ☐

No.	Amino Acid	needed
1	Agmatine	☐
2	Cadaverine	☐
3	Dopamine	☐
4	Histamine	☐

No.	Amino Acid	needed
5	Putrescine	☐
6	Spermidine	☐
7	Spermin	☐
8	Tyramine	☐

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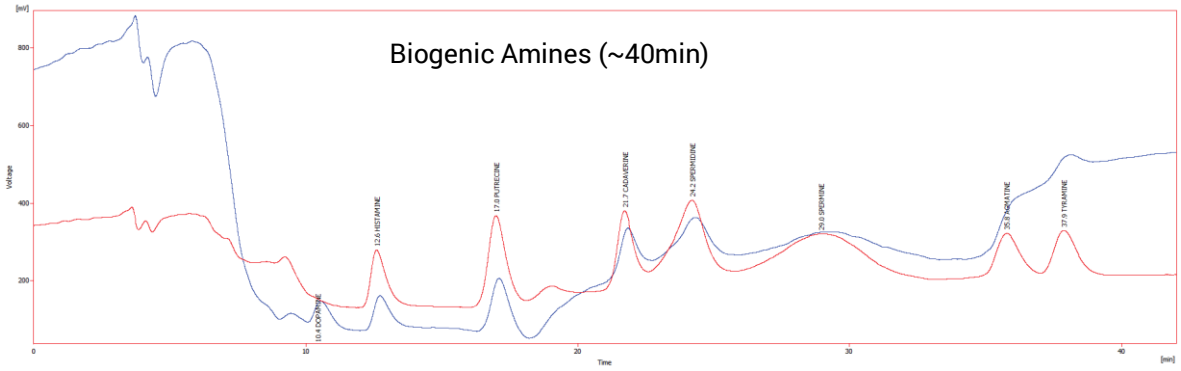
**see attach standard chromatograms*

Attachment Potassium-System:



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Additional Arrangements		
IQ / OQ *(only Clarity)*	Yes ☐	No ☐
installation by a technician from *membraPure GmbH*	Yes ☐	No ☐
System Training at *membraPure GmbH* side	Yes ☐	No ☐
System Training at Customer side	Yes ☐	No ☐
Others:		

The device complied above corresponds to the concept of the *customer* and the possibilities of the company *membraPure GmbH*		
Date	Signature Customer	Signature membraPure GmbH

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