



AAA-3500 Automatic Analyzer of Amino Acids



AAA 3500 is a compact device designed for determination of amino acids and biogenic amines. Thus, it can be used in the fields of biochemical research, research of human and animal nutrition, medical diagnostics, control of drugs, food and feedstock. The robust and sensitive method of ion exchange chromatography with post-column ninhydrin derivatization provides high accuracy and reproducibility of analyses. AAA 3500 will provide results with maximum accuracy and reproducibility in continuous operation, saving purchasing, operation and maintenance costs.

EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



Compact device

Gradient

6 gradient valves.

The used LED lights ensure a very long

Reactor and detector

The reactor with an easily replaceable

insert has a programmable temperature in

the range of 40 °C - 150 °C and is protected from overheating. The spectorphotometric detector simultaneously works on two wavelengths of 440 and 570 nm.

A pair of high-pressure double-piston

pumps with floating pistons ensures

virtually impulse free operation in the

service life.

Pumps

AAA 3500 is a compact device with a urfied control panel, which increases user convenience and facilitates control and handling of the device. AAA 3500 is normally controlled by a computer, the user may control the settings of the device with the use of a touch display as well.

Monitored quantity in bottles

reagents during operation.

NERS

User-friendly touch display

A large and user-friendly touch screen enables convenient control and operation of the device.

Column thermostat

The thermostat ensures fast heating and cooling from 25 °C to 90 °C (adjustable with the increment of 0.1 °C), independently of the ambient temperature.

Automatic dispenser

A dispenser with a cooled carouse and adjustable temperature of 3°C t the ambient temperature, 40 position per 1.5 ml or 80 positions per 0.5 m Automatic rinsing prevents cross contamination of individual samples

Variable dosing

range from 0.01 to 8.5 ml/min.

In the range of 1 μl - 100 μl as standard, or 1 μl - 200 μl on request.

Columns

Stainless-steel columns with variable dimensions are able to carry out up to 10.000 analyses per one filling. On request a column made of PEEK or glass may be delivered, which can be overfilled by the user.



Reagents

Buffers can be prepared simply from cheap and affordable chemicals. The user is not forced to buy costly ready-made buffers from the manufacturer of the AAA 3500 device, which considerably reduces the price of analyses.

Robust and sensitive method

AAA 3500 uses the principle of ion exchange chromatography with post-column NHD derivatization. Using this method you can safely determine amino acids in hydrolysates of proteins, peptides as well as free amino acids in physiological solutions and extracts, biogenic amines and some antibiotics.

Saves on costs

The user can minimize the operation costs by producing reagents with the use of simple software from cheap and affordable chemicals (there is no need to buy overpriced ready-made buffers).



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Clarity control software

AAA 3500 is controlled by the Clarity software of the DataApex Company. This software ensures convenient and intuitive operation of the devices as well as work with data and their export to various formats. Clarity makes it possible to connect other equipment to AAA 3500, e.g.a fluorescence detector.

The device can be controlled remotely via the Internet or Maintenance diagnostic activities can also be carried out remotely.

High accuracy and reproducibility of analyses

AAA 3500 provides analyses with a low level of noise and drift. The ATL Company is able to produce a shortened or modified program for virtually all ninhydrin positive substances on the customer's request.



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Determination of free amino acids (standard)

Shortened determination of sulphurous amino acids (cystine and methionine)



Determination of biogenic amines





Technical specifications

Amino Acias 3500				
1.7 x 10 AU/s				
2.0 x 10⁻⁵ AU/hod				
Retention times: 0.3 % (arg) Peak area: 1 % (ser, gly, his)				
High pressure impulse-free pumps (pair of floating pistons)				
0.01 to ≤10 ml/min				
0 – 25 MPa				
40 x 1.5 ml				
80 x 0.5 ml				
1 - 200 μl with 1 μl increment				
Peltier				
Adjustable 3 °C (ambient temperature)				
4 x 250 mm or 4 x 150 mm				
stainless steel, PEEK, glass				
25 °C – 90 °C				
Peltier				
0.1 °C				

Automatic Analyzer of Amino Acids 3500

Degasser	6-channel degasser
Double-channel photometer	400 and 600 nm
Cuvette volume	5 μΙ
Reactor	40 – 150 °C (overheating protection)
PC communication	LAN
Processing of results	Clarity
Colour display	8" diagonal
Power input	230V, 50Hz
- start	280 VA
- operation	120 VA
- standby	70 VA
Dimensions (W x H x D)	710 x 600 x 560 mm
Weight without bottles	46 Kg
Operation time without the user's intervention	approx. 7 days
Other applications	Biogenic amines Sugar analysis for reduced sugars

The ATL Company offers e.g. these laboratory instruments:





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HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servici	ng:HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most
	affordable cost.
Trainings	:We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.
AMC's/CMC	:AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-
	shooting.
Validations	:Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

:Instruments :We offer instruments/Renting Services Modules like pumps, detector etc. on Rent. Instruments





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies

Infra FTIR







Optical Emission Spectrophotometer



DSC/TGA









Optima Gas

Chromatograph

3007











Optima Gas

Chromatograph

2979 Plus











Liquid Partical Counter

Total Organic Carbon 3800





Fully Automated CLIA

NOVA-2100 Chemistry Analyzer PCR/Gradient PCR/ RTPCR

TOC Analyzer Laser Particle Size Analyzer

Micro Plate

Reader/Washer

Ion Chromatograph

Water purification system





URINOVA 2800

Urine Analyzer

Regulatory compliances



Corporate Social Responsibility

Analytical

Foundation

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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:

1.Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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