



Article No.: A46018

Articlename: SYS986502200 HPLC Plus system with quaternary LPG pump and 3D diode array detector

HPLC System for Food Analysis

Analytical HPLC system up to 862 bar with diode array detection

This gradient HPLC system perfectly meets even sophisticated analysis demands up to the UHPLC range. It offers first class performance and quality „Made in Germany“. This system features a low pressure gradient pump (AZURA® P 6.1L), the autosampler (AZURA® AS 6.1L), a column thermostat CT 2.1 and a DAD 2.1L UV/VIS detector with 8 variable wavelength measuring channels from 190–750 nm. The system is controlled via KNAUER ClarityChrom® chromatography software.

The low-pressure gradient pump P 6.1L operates with very precise valve control and features an internal degasser for efficient online-degassing of the eluent. The mixing chamber of the pump is available in three different volumes depending on the application (100 µl is standard). The DAD 2.1L features a novel light path and flow cell architecture with improved handling and excellent performance. The frontal lamp and covers easy and secure the temperature controlled



optical bench minimizes signal drift. The wide range of flow cells allows the DAD 2.1L to be easily adapted to your needs. The autosampler AS 6.1L can inject up to 768 samples from microtiter plates or 108 standard 2 ml vial samples. Minimum injection volume is 0.1 μ l. The column thermostat AZURA CT 2.1 can hold up to 6 columns with a max. length of 300 mm and keep the temperature constant in the range of 5 °C to 85 °C. With the Mobile Control software you have your AZURA devices under control: Monitor the status of several devices at the same time from the tablet or simply make settings. This control software is the perfect complement to your chromatography data system. The user management ensures that system parameters can only be changed by logged-in users. KNAUER ClarityChrom® is a powerful, yet easy-to-use chromatography software (or chromatography data system, CDS) for instrument control, data acquisition and data processing.



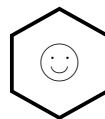
KEY FEATURES



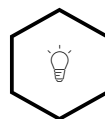
Made in Germany



Certified quality
management



Customized solutions



60 years experience



60 years experience

TECHNICAL DATA

Analytical system

Application area	HPLC
Pump system	Gradient
Gradient	Quaternary LPG
Injection	Autosampler
Detector	Diode array detection DAD
Software	ClarityChrom
Pressure	862 bar
Column thermostat	Yes

SYSTEM COMPONENTS



AZURA Eluent tray E 2.1L

Article No. AZC00

AZURA® Eluent tray E 2.1L for AZURA® devices with a capacity of 6 x 1 l bottles or 4 x 2.5 l bottles or 2 x 5 l bottles, (delivery without bottles)

Type : **Eluent tray**

[Show product](#) >



Set of eluent supply bottles for HPG and LPG systems incl. bottle for piston backflushing

Article No. A5324-2

Set of 4 eluent bottles 1000 ml, 1 bottle 250 ml for piston backflushing, incl. caps for eluent tubing, GL45

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Eluent waste kit for AZURA Analytical systems

Article No. A59258

Eluent waste kit for all AZURA Analytical systems, incl. filter, waste can and cap

[Show product >](#)

Low pressure gradient HPLC pump with 4 channel degasser

Article No. APH34EA

AZURA® Pump P 6.1L (LPG), with 10 ml pump head (stainless steel), degasser and mixer (200 µl)

Max. flow rate : **10 ml/min**

Pump head materials : **Stainless Steel**

Gradient : **Low pressure gradient (quaternary)**

Pump features : **Active pulsation compensation, RFID for automatic pump head detection, Integrated pressure sensor, Purge valve (manual), Leak management, Piston seal wash**

Maximum delivery pressure [MPa] : **86 MPa**

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Fast and versatile analytical HPLC autosampler

Article No. AAA50AA

AZURA® Autosampler AS 6.1L analytical HPLC autosampler, 862 bar

Maximum back pressure : **862 bar**

Sample loop : **100 µl**

Sample tray cooling : **None**

Autosampler Flow Path : **Analytical**

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Screw neck vial set N9, 1.5 ml, clear, wide opening, 100x

Article No. A0638-6

Vials: Screw neck vials N9 (\varnothing 11.6 mm), 1.5 ml, clear glass, flat bottom, wide opening, with label & scale

Caps: Screw caps blue with septum silicone beige/PTFE white
100 pcs each

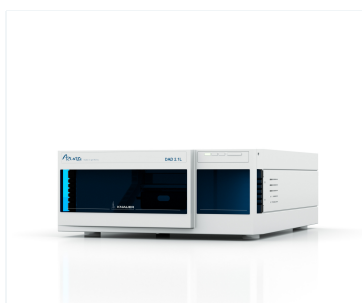
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Column thermostat for up to 8 HPLC columns

Article No. ATC00

Column thermostat AZURA CT 2.1 for constant temperatures and reproducible results

Temperature range : 5–85 °C

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Basic Diode Array Detector for Liquid Chromatography and Process Technology

Article No. ADC01

AZURA® Detector DAD 2.1L Diode array detector DAD 2.1L without flow cell 190 - 700 nm, incl. test cell

Detector type : **Diode array detector**

Detection channels : **8 (Digital)/4 (Analog)**

Wavelength range : **190 - 700 nm**

Number of diodes : **256**

Linearity : **> 2.0 AU at 274 nm (ASTM E1657-98)**

[Show product](#) >



Analytical KNAUER PressureProof UV Flow Cell Cartridge

Article No. AMC38

10 mm path length, 10µl, 1/16", 300 bar, PressureProof Flow cell cartridge for AZURA® Detector DAD/MWD

Flow cell type : **Analytical UV flow cell**

Path length : **10 mm**

Capillary connection : **1/16"**

Max. flow rate : **20 ml/min**

Flow cell volume : **10 µl**

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ClarityChrom 8.7 - Workstation, autosampler control included

Article No. A1670

ClarityChrom® single instrument license for one time base

Software name : **ClarityChrom**

[Show product >](#)



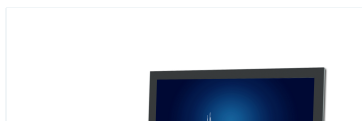
ClarityChrom 8.7 - PDA extension

Article No. A1676

ClarityChrom® option for PDA data processing

Software name : **ClarityChrom**

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Chromatography Workstation for PurityChrom® and ClarityChrom®, PC with 24" monitor

Article No. A13120

Desktop PC (SFF) for PurityChrom® and ClarityChrom® with 24" monitor, English edition Windows 10 Prof. 64-bit English, Intel® Core™ i5, 8 GB RAM, 256 GB SSD, two network cards

[Show product](#) >

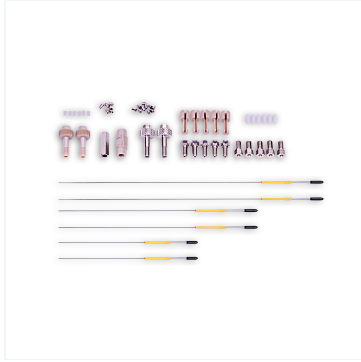


WiFi router, 8x GBit RJ-45 ports, for connection of AZURA devices with a PC

Article No. A64809INT

WiFi router, 8x LAN GBit RJ-45 ports, 1x WAN GBit RJ-45 port, power plug UK, US or AUS

[Show product](#) >



Start-Up Kit with flexible, precut capillaries for analytical HPLC and UHPLC systems with 1/16" connections

Article No. AZF50

Set of precut capillaries 0.18 mm ID, fittings, connectors and adapters, yellow

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Tool kit AZURA

Article No. A1033

Tool Kit AZURA® for systems with PEEK or pre-cut capillary kits

Type : **Tool kit**

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DOCUMENTS AND MORE INFORMATION

AZURA System Selection Guide (V7857US)

System suggestions for analytical HPLC/UHPLC, FPLC, preparative LC and sample preparation systems. English language, V7857US

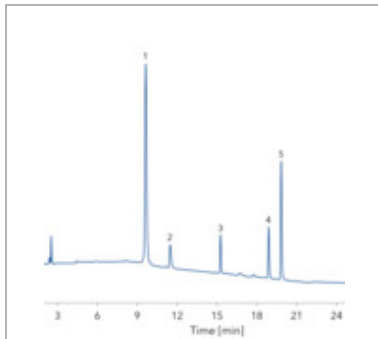
Brochure English

AZURA Analytical HPLC and UHPLC brochure

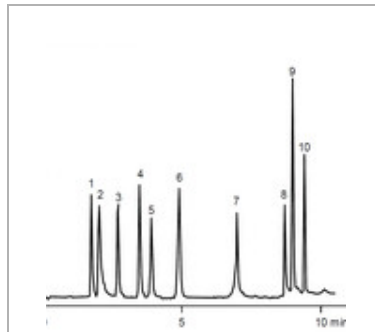
AZURA Analytical HPLC/UHPLC brochure, V7852US

Brochure English

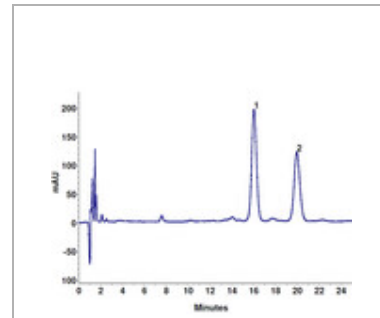
APPLICATIONS FOR THIS PRODUCT



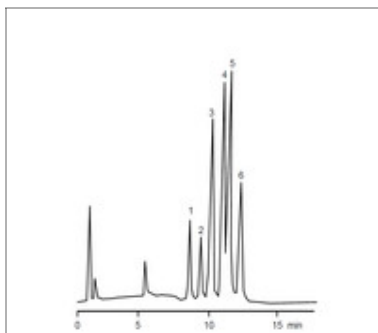
Determination of biogenic amines with automated precolumn derivatization



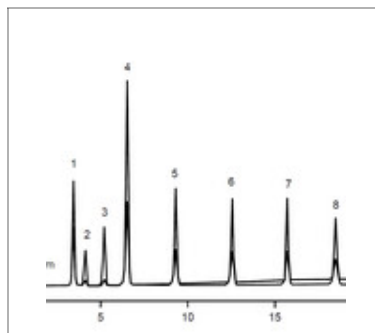
Separation of water soluble Vitamins



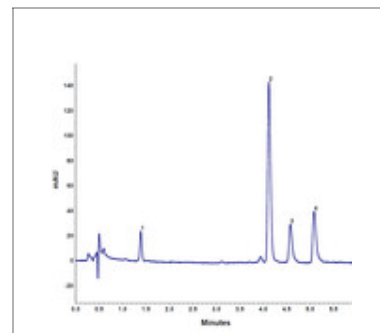
Separation of Bisabolol oxide A and B from Camellia extract



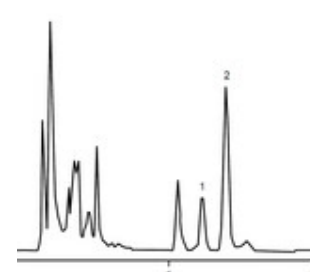
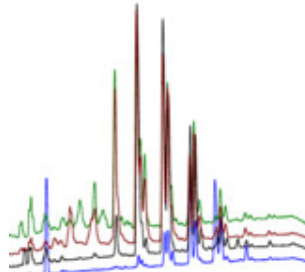
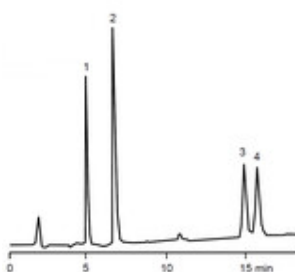
Determination of Sterols

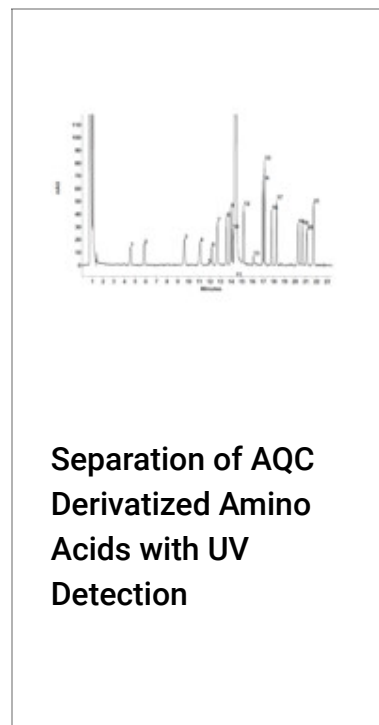
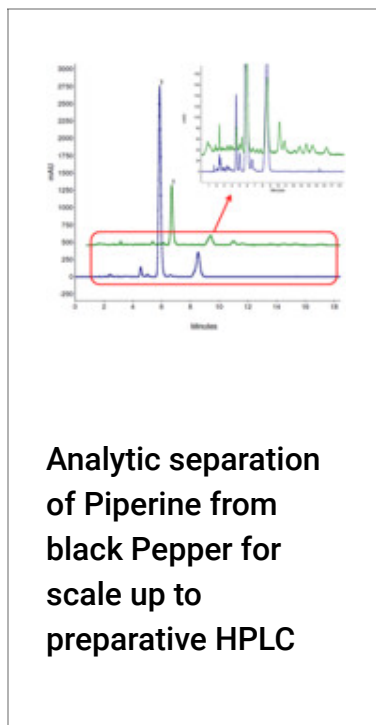
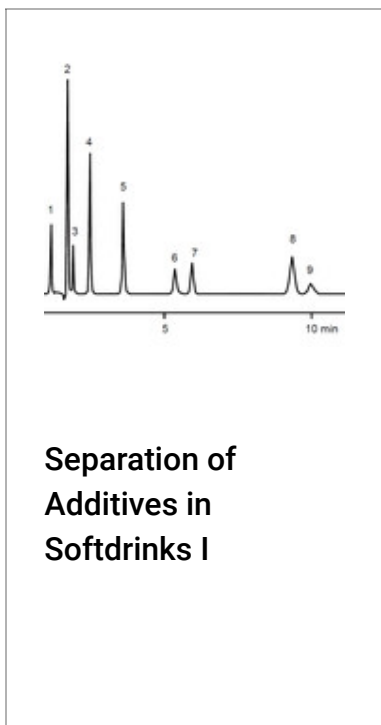
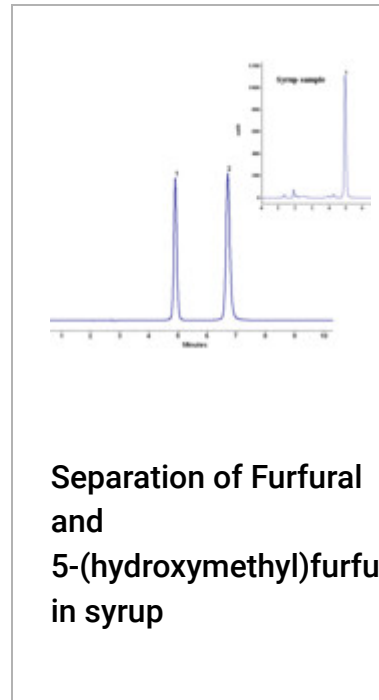
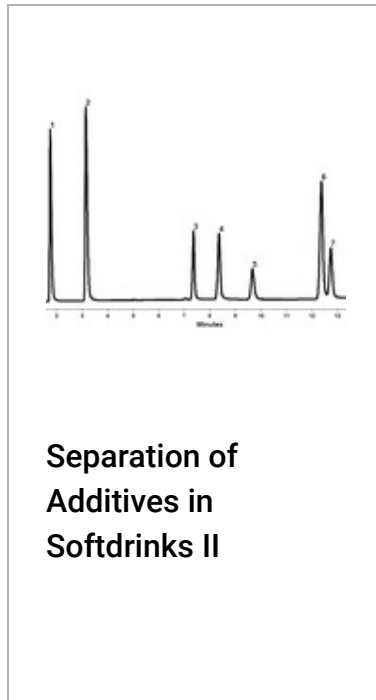
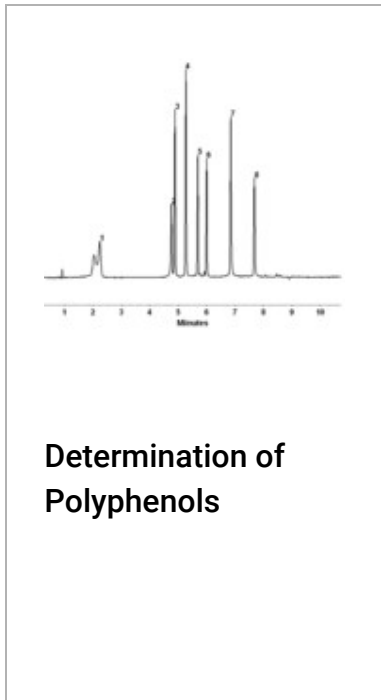


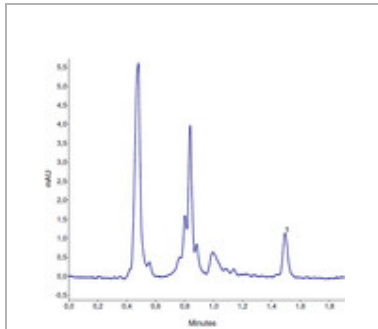
Separation of Preservatives



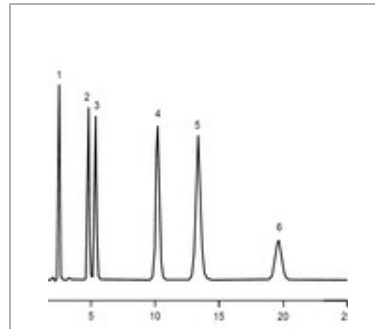
Determination of Tocopherols (I)



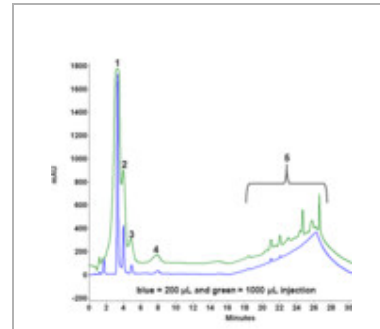




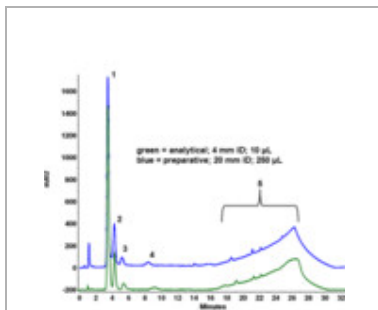
Determination of Urea in HILIC mode



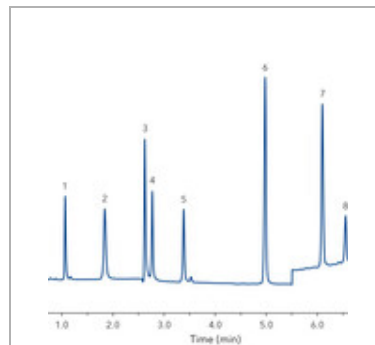
Separation of Tocopherols and Vitamin D2



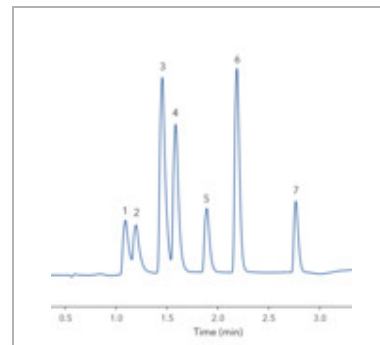
Preparative Separation of Apple Flavours from Extract



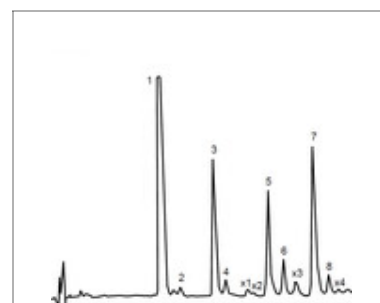
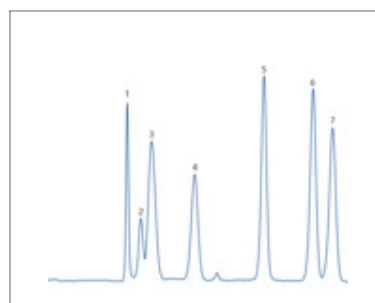
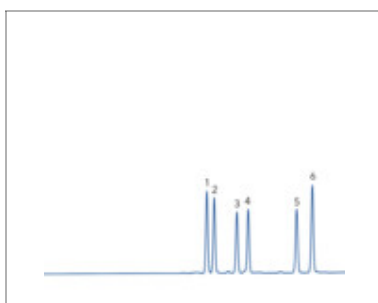
Scale-Up for Preparative Separation of Apple Flavours from Extract

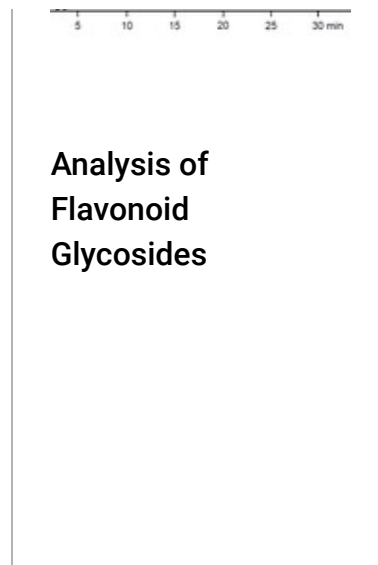
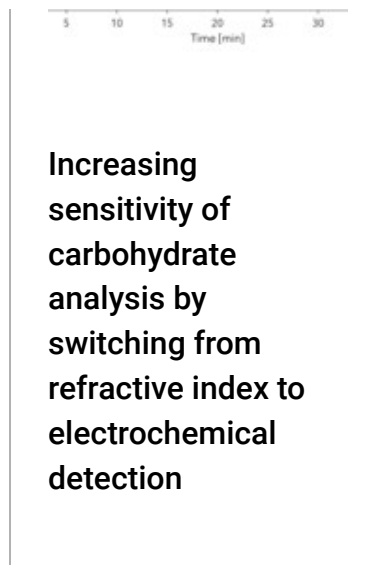
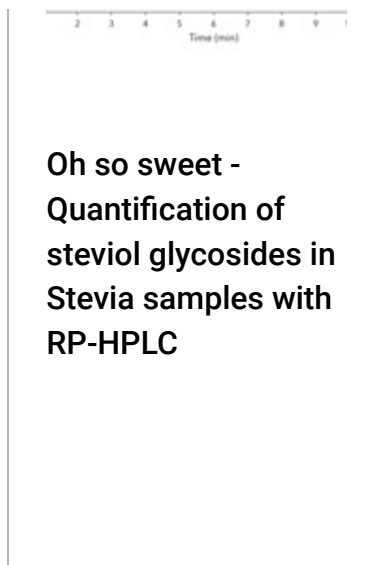


Separation of ascorbic acid and vitamin B complexes - essentially required nutrients



Natural or artificial? - Determination of vanillin in vanilla products and associated marker substances





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