



Article No.: A46021

Articlename: SYS986402200 Cannabis Profiler HPLC System for cannabis quality control of according to the German Pharmacopoeia

## **Cannabis Profiler : HPLC System for cannabis potency testing (THC and CBD) according to the German Pharmacopoeia (DAB)**

### **Quick and easy determination of six cannabinoids**

This AZURA Analytical system is dedicated for the analysis of six common cannabinoids of high medicinal interest. Cannabidiol (CBD), cannabidiolic acid (CBDA), cannabinol (CBN),  $\Delta$ 8-tetrahydrocannabinol ( $\Delta$ 8-THC),  $\Delta$ 9-tetrahydrocannabinol ( $\Delta$ 9-THC), and  $\Delta$ 9-tetrahydrocannabinolic acid ( $\Delta$ 9-THCA) can easily be quantified according to the monography of German Pharmacopoeia.

The applied method is verified using authorized medicinal cannabis flower samples available on the market. The substances were analysed with the help of chemical reference standards.

**This system features a AZURA P 6.1L LPG pump, an Autosampler AS 6.1L, a column thermostat CT 2.1 and an MWD 2.1L UV/VIS detector**

- The AZURA P 6.1L with an LPG configuration features a new LPG valve for the most precise blending efficiency. The internal degassing unit will prevent air bubbles in the system. Every 6.1L comes with an attached mixing chamber which can be changed to a larger

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volume depending on the needs of the application.

- The MWD 2.1L is an 8 channel, sensitive multiwavelength detector combining high performance with easy handling at an affordable price. A novel light path and flow cell architecture with improved handling and excellent performance make this device suited for a wide range of application tasks. The frontal lamp and cell change ensures easy and secure maintenance. The temperature controlled optical bench minimizes signal drift.
- The Autosampler 6.1L can inject 0.1 – 5000 µl to have a large flexibility. Using standard vials or two microtiter plates will give you a maximum sample capacity of up to 768 samples or 108 vials.
- The AZURA CT 2.1 is the new price attractive basic column thermostat. It is suitable for column thermostatisation above and below room temperature. The instrument operates with a microprocessor controlled Peltier element for exact temperature settings.



*THC and CBD analysis system (HPLC) and  
potency testing according to the German  
Pharmacopoeia (DAB)*

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## TECHNICAL DATA

### Analytical system

<b>Application area</b>	HPLC
<b>Pump system</b>	Gradient
<b>Gradient</b>	Quarternary LPG
<b>Injection</b>	Autosampler
<b>Detector</b>	Variable multiwavelength detection UV/VIS
<b>Software</b>	ClarityChrom
<b>Pressure</b>	862 bar
<b>Column thermostat</b>	Yes

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## 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**

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### AZURA P 6.1L

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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### Autosampler AS 6.1

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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### Set of eluent supply bottles for analytical LPG systems

Article No. A5324-2

Set of eluent supply bottles, 4 x 1 L bottles for Eluents and 1 x 250 ml bottle for piston backflushing, includes screw caps with holes for eluent tubing



### Eluent waste kit for AZURA Analytical systems

Article No. A59258

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



### AZURA CT 2.1

Article No. ATC00

Column thermostat AZURA CT 2.1 for constant temperatures and reproducible results

Temperature range : 5–85 °C



### Eurospher II 100-3 C18P with precolumn, Column 150 x 4.6 mm

Article No. 15VE182E2G

Modification : **C18P**

Length [mm] : **150 mm**

Inner diameter [mm] : **4.6 mm with integrated precolumn**

Brand : **Eurospher II**

Particle size : **3 µm**

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## AZURA Detector MWD 2.1L

Article No. ADB01

AZURA® Detector MWD 2.1L Multiwavelength detector MWD 2.1L, without flow cell 190 - 700 nm, incl. test cell

Detector type : **Variable multiwavelength detector**

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

Wavelength range : **190 - 700 nm**

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



## 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**



## ClarityChrom 8.2.3 - Workstation, autosampler control included

Article No. A1670

ClarityChrom® single instrument license for one time base

Software name : **ClarityChrom**

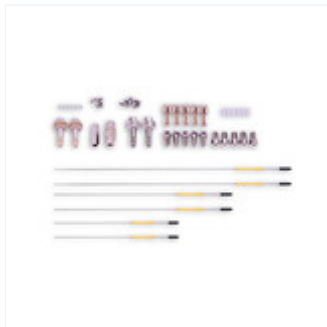
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### **NETGEAR Switch 5-Port international**

Article No. A3126INT

5-port Fast Ethernet switch NetGear FS105 5x RJ-45, 100 MBit, power plug UK, US or AUS



### **AZURA® Analytical K-Connect start-up kits, stainless steel, 1/32" capillaries with fitting sleeves for 1/16" connections**

Article No. AZF50

Set of pre-cut capillaries 0.18 mm ID, fittings, connectors and adapters, yellow



### **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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## ACCESSORIES & SPARE PARTS



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

### **DOCUMENTS AND MORE INFORMATION**

Article No.: A13120



**Screw neck vial set N9, 1.5 ml, clear, wide opening, 100x**  
 Vials: Screw neck vials N9 (ø 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

Article No.: A0638-6

#### **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, V4, 2017-08

Brochure English

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## APPLICATIONS FOR THIS PRODUCT



**Analyzing cannabis flowers according to the German Pharmacopeia - monograph 2017**



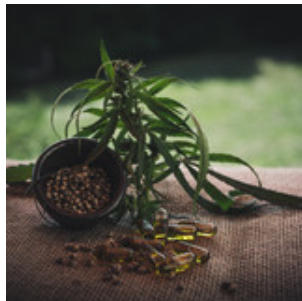
**(C)an(n)alyze: determination of 16 cannabinoids inside flowers, oils and seeds**



**Analyzing cannabis flowers according to the German Pharmacopeia - monograph 2018**



**Purify CBD and other cannabinoids by preparative HPLC**



**Purification of cannabidiol from CBD oil by preparative HPLC**

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## Do you need more details or a quote?

We are happy to help you



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