Article No.: ADA01XA
Articlename: AZURA UV/VIS Detector UVD 2.1L

Superior Single Wavelength UV-Detector for Liquid Chromatography and Process Technology

190 - 750 nm, variable single wavelength UV/VIS detector

The AZURA UV/VIS Detector UVD 2.1L is a competitively priced HPLC spectrophotometer for routine HPLC applications including fast LC methods. Besides offering excellent technical specifications, this robust detector features a highly flexible and compact design. The UVD 2.1L comes with an installed deuterium lamp which covers a wavelength range from 190 to 750 nm. This detector can be controlled with OpenLab® EZChrom, ChromGate®, and ClarityChrom® software, as well as with the Mobile Control software (stand-alone operation), via LAN or through analog input/output; allowing it to be integrated into almost any LC system. Due to a smart design the flow cell is easily accessible and can be changed very quickly. You can choose

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between a wide range of flow cells for analytical or preparative LC applications with flow rates from 10 µl/min up to 10 l/min.

UVD 2.1L variable wavelength detector

KEY FEATURES

Large choice of flow cells

Leak management

60 years experience

Made in Germany

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TECHNICAL DATA

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Detection

Detector type	Variable single wavelength UV detector
Detection channels	1
Light source	Deuterium (D^2) lamp with integrated GLP chip
Wavelength range	190 - 750 nm
Spectral bandwidth	11 nm at H_α line (FWHM)
Wavelength accuracy	± 2.5 nm
Wavelength precision	0.3 nm (ASTM E275-93)
Noise	± 15 µAU at 254 nm (ASTM E1657-98)
Drift	300 µAU/h at 254 nm (ASTM E1657-98)
Linearity	> 2.0 AU at 274 nm (ASTM E1657-98)
Maximum data rate	50 Hz (LAN)/20 Hz (Analog)
Flow cell	Not included (see Accessories / Spare parts)
Help **stants**	0.0 / 0.1 / 0.2 / 0.5 / 1.0 / 2.0 / 5.0 / 10.0 s

Integration time	Automatic
Leak sensor	Yes

Communication

Inputs	Error (IN), Start (IN), Autozero, 0 - 10 V Analog IN
Outputs	Events 1 - 3, + 5 V, 24 V Valve
Analog outputs	1 x 0 - 5 V scalable, 20 bit, offset adjustable
Control	Digital: LAN, remote connector/Analog: wavelength control/Manual: Mobile Control (optional)
Programming	Timed: wavelength, events, fraction valve, links, wake up (program, link); 9 programs, 50 program lines

Technical parameters

GLP	Detailed report including lamp recognition, operating hours, lamp operating hours, number of lamp ignitions
Display	Mobile Control (optional)
Ambient conditions	Temperature range: 4 - 40 °C, 39.2 - 104 °F, Humidity: below 90 % noncondensing

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General

Power supply	100 - 240 V, 50 - 60 Hz, 65 W
Dimensions	361 x 158 x 523 mm (W x H x D)
Weight	5.9 kg

Other

Note	Flow cells are not included and must be ordered separately (see Accessories / Spare parts)

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ACCESSORIES & SPARE PARTS

Deuterium Lamp

Deuterium lamp, replacement, for S2520, 10D, 40D, UVD 2.1S, UVD 2.1L, DAD 2.1L, MWD 2.1L

Article No.: A5193

Tool kit AZURA

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

Article No.: A1033

Analytical 10 mm UV Flow Cell

10 mm path length, 10 µl, 1/16", 300 bar, stainless steel, with heat exchanger one sided inlet and outlet, classical KNAUER flow cell

Article No.: A4061XB

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Semi-preparative 3 mm UV Flow Cell
3 mm path length, 2 µl, 1/16", stainless steel, classical KNAUER flow cell

Article No.: A4042

Semi-preparative bio-compatible 3 mm UV Flow Cell
3 mm path length, 2 µl, 1/16", 30 bar, biocompatible, classical KNAUER flow cell

Article No.: A4045

Preparative UV Flow Cell
0.5 mm path length, 3 µl, 1/16", 200 bar, stainless steel, classical KNAUER flow cell

Article No.: A4069

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Preparative UV Flow Cell
0.5 mm path length, 3 µl, 1/16", 100 bar, biocompatible, classical KNAUER flow cell

Article No.: A4095

Preparative UV Flow Cell
2 mm path length, 1/8", 200 bar, stainless steel, changeable to 0.5/1.25 mm, classical KNAUER flow cell

Article No.: A4066

Preparative UV Flow Cell
2 mm path length, 1/8", 100 bar, biocompatible, changeable to 0.5/1.25 mm, classical KNAUER flow cell

Article No.: A4067

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Preparative UV Flow Cell
2 mm path length, 1/4" angular connections, 200 bar, stainless steel, changeable to 0.5/1.25 mm, without fittings, classical KNAUER flow cell

Article No.: A4068

Preparative UV Flow Cell
2 mm path length, 1/4" straight connections, 200 bar, stainless steel, changeable to 0.5/1.25 mm, without fittings, classical KNAUER flow cell

Article No.: A4068-2

Test Cell
Test cell

Article No.: A4123

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Test Cell with Holmium Filter
Test cell Holmium Oxid Filter

Article No.: A4126

Test Cell with Stray Light Filter
Test cell, WG 280 filter stray light

Article No.: A4146

Accessory kit AZURA UVD 2.1S and UVD 2.1L
included in shipkit

Article No.: FDA

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Accessory kit AZURA large devices
cable kit for all devices with
footprint "L" included in shipkit

Article No.: FZA02

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DOCUMENTS AND MORE INFORMATION

AZURA Detector UVD 2.1L Instructions EN (V6831)

Manual English

AZURA Détecteur UVD 2.1L Instructions FR (V6831)

Manual French

AZURA Detektor UVD 2.1L Betriebsanleitung DE (V6831)

Manual German

List of supported devices in chromatography data systems EN (V1663)

Device support in KNAUER CDS / KNAUER device support in 3rd party software

Information English

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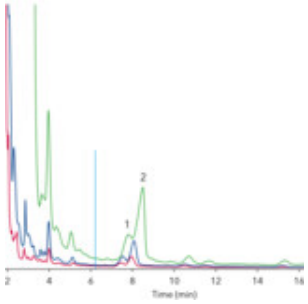
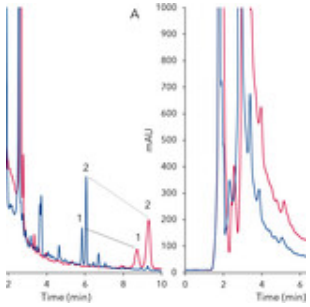
APPLICATIONS FOR THIS PRODUCT

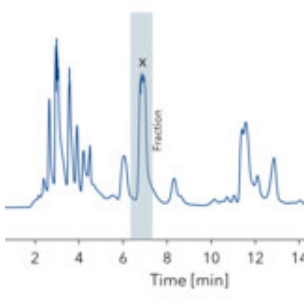


Evaluating preparative online SPE for the purification of stevia leave extracts



Scale-Up of an analytical HPLC method for steviol glycosides to a preparative approach

A D E K - Easy separation of fat-soluble vitamins using GPC/SEC



Purification of chamazulene by preparative HPLC and its scale-up

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RELATED PRODUCTS

Superior Single Wavelength UV-Detector for Liquid Chromatography and Process Technology with Fiber Optics Technology

AZURA® Detector UVD 2.1L Fiber Optics Version with deuterium lamp without flow cell

Article No.: ADA04XA

Compact Single Wavelength UV-Detector for Liquid Chromatography and Process Technology

AZURA® Detector UVD 2.1S with deuterium lamp without flow cell, incl. test cell

Article No.: ADA00

Compact single wavelength UV detector with remote flow cell for liquid chromatography and process technology

AZURA® Detector UVD 2.1S Fiber Optics Version with deuterium lamp without flow cell

Article No.: ADA05

RELATED FAQS

How does the monochromator in my UV detector work?

Detection

V-wavelength is appropriate for my HPLC application?

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ges of HPLC separations

Certified Quality

KNAUER is known for the quality of its products and has been certified several times. We produce high-tech laboratory instruments for research, routine analysis and production for 59 years.
See all Quality certificates

In addition, we have extended documentation about all our products, including **CE Declarations of Conformity.**
See all CE Declarations of conformity

Innovation and quality - since 1962. Made in Germany.

Do you need more details or a quote?

We are happy to help you

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