PREMOSYS®

Product Portfolio

lights

LED- AND LIGHT MEASUREMENT TECHNOLOGY

OPTIMIZED FOR PRODUCTION AND LABORATORY

colors

INLINE COLOR MEASUREMENT SYSTEMS

ALL SURFACE STRUCTURES FROM INHOMOGENEOUS TO GLOSSY

electronics

ELECTRONIC MODULES

CUSTOMIZED PCB - AND MODULE DEVELOPMENT

analytics

MEDICAL TECHNOLOGY

OPTICAL MEASUREMENT TECHNOLOGY AND REGULATION ELECTRONICS

liquids

SPECTRAL MEASUREMENT SYSTEMS

AUTOMATED LIQUID ANALYSIS

agrar

SENSOR TECHNOLOGY FOR CULTIVATION DEVICES

SYSTEMS FOR PLANT DIFFERENTIATION AND WILDLIFE DETECTION

Quality Management ISO 9001:2015

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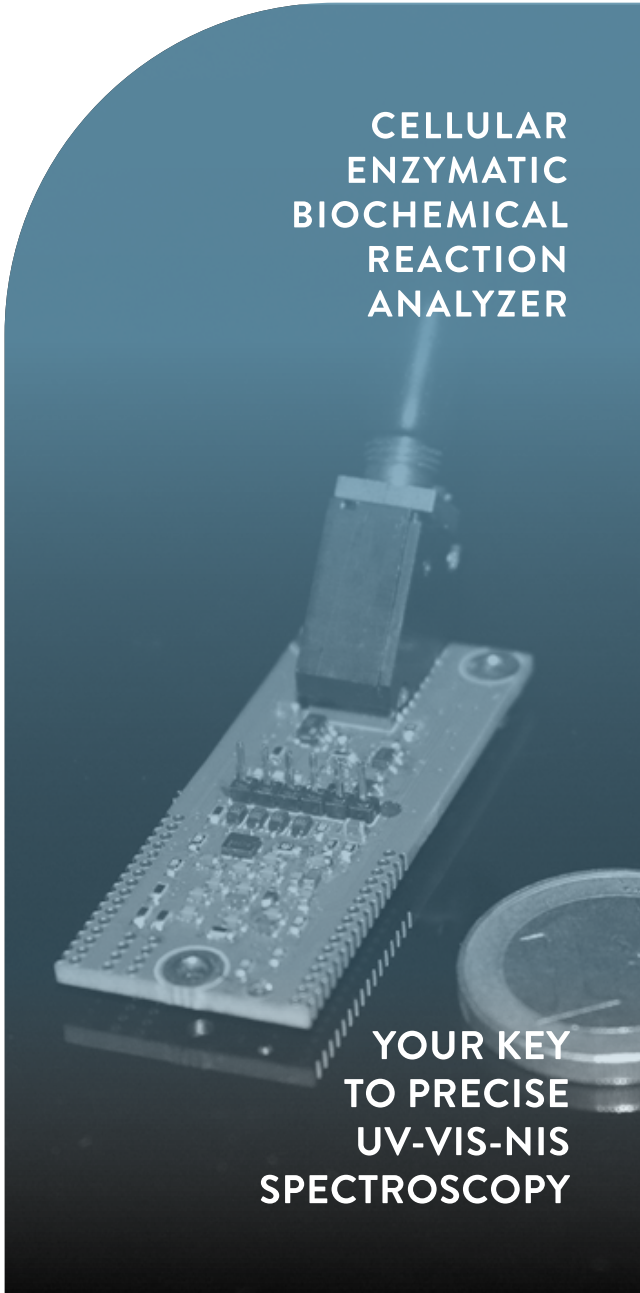
AUSGABE 10/2024

PREMOSYS®

C.E.B.R.A.

CELLULAR ENZYMATIC BIOCHEMICAL REACTION ANALYZER



YOUR KEY TO PRECISE UV-VIS-NIS SPECTROSCOPY

INNOVATIVE TECHNOLOGY FOR RELIABLE ANALYSES

The **C.E.B.R.A. UV-VIS-NIR Spectrophotometer** by PREMOSYS® combines reliable technology with versatility. **C.E.B.R.A.**, which stands for Cellular Enzyme Biochemical Reaction Analyzer, is specifically designed to be used in a wide range of applications - from environmental analysis to food quality and sophisticated life science analysis.

With a spectral range from 250 nm to 1100 nm, the device covers a variety of measurements, such as photometric, spectral and kinetic analyses. The intuitive software allows users to work flexibly and effortlessly from simple ratio calculations to complex scans and biochemical reaction analyses.

MAXIMUM FLEXIBILITY FOR THE HIGHEST STANDARDS

The **C.E.B.R.A.** impresses with its compact size, high sensitivity and low stray light values, ensuring reliable and precise results. From environmental contaminant monitoring to DNA and protein quantification, it delivers consistent results for a wide range of applications without being complicated to use.

ADVANTAGES OVERVIEW

- **BROAD SPECTRUM**
  Measures in the range from 250 nm to 1100 nm - ideal for photometric, spectral and kinetic measurements.
- **HIGH PRECISION**
  Resolution of 1.8 nm for reliable results.
- **FLEXIBILITY**
  Adaptable software tool with a wide range of analysis options
- **STURDY DESIGN**
  Compact yet powerful - perfect for laboratory use.

FUNCTIONS

- **SCAN METHOD**

Captures complete spectra and calculates quotients of freely selectable wavelengths.

- **QUANT METHOD**

Creates calibration curves and calculates precise concentrations of unknown samples.

- **KINETICS METHOD**

Measures time-dependent changes in absorption or transmission.

FIELDS OF APPLICATION

QUANTIFICATION OF DNA AND RNA

BIOTECHNOLOGY
Cell viability, cell proliferation, cell activity, enzyme activity

BIOMARKER DETECTION
ELISA, metabolite analysis

TECHNICAL DETAILS

- **Spectral range: 250 nm - 1100 nm**
- **Resolution: 1.8 nm**
- **Interface: USB 2.0**
- **Light source: LED**
- **Compact size: 180 x 160 x 107 mm**
- **Temperature range: 0 to +50 °C**
- **High sensitivity and low stray light values for precise measurements**

EXPERIENCE THE NEW DIMENSION OF SPECTRAL ANALYSIS

Contact us for a personal consultation!

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