

# Capel-115

Portable capillary electrophoresis system



Capel-115 is a portable capillary electrophoresis (CE) system intended for determination of a wide range of analytes in various types of samples, including water, soil, food, and fodders using main modes of separations available in capillary electrophoresis.

## FEATURES AND ADVANTAGES

- Portable, light, and field deployable
- Small footprint
- High separation efficiency
- Multiple components determination in one run
- Suitable for various types of analytes from small ions to macromolecules
- Liquid cooling of capillary ensures high reproducibility
- Fast analysis (most analyses take 5–15 minutes)
- Simple sample pre-treatment (just dilute and filter)
- Low analysis cost (nanoliters of reagents, only low-cost consumables are needed)
- Power supply unit equipped with a built-in rechargeable battery and AC power cord
- IQ/OQ protocols

## APPLICATIONS

- Petrochemical industry
- Environmental analysis
- Food and beverages production
- Animal feed industry

## SPECIFICATIONS

Detection wavelength	190–400 nm
Analysis	Constant voltage, (+/-) 1–25 kV in a 1 kV step Automatic (electronic) polarity switch Current 0–300 µA Pressure, up to 100 mbar Programmable changing of wavelength, pressure and voltage during analysis
Injection	By voltage, (+/-) 1–25 kV in a 1 kV step; by pressure, from –100 to 100 mbar in a 1 mbar step
Rinsing	By pressure, 500–2000 mbar in a 1 mbar step
Capillary	Length 42–100 cm Internal diameter 50, 75 µm
Temperature control of capillary	From 10 °C below ambient temperature (although not lower than +5 °C in absolute value) to +50 °C in absolute value
Sampler	Autosampler for 10 vials (standard 1.5 mL)
Power requirements	100–240 VAC, 50/60 Hz or built-in battery 15 VDC
Environmental conditions	Ambient air temperature, from +10 °C to +35 °C Relative air humidity at +25 °C, not more than 80 % Atmospheric pressure, 84–107 kPa
Time of continuous operation with built-in battery	5 h
Dimensions / Weight	290×385×460 mm, 16 kg

## EQUIPMENT & OPTIONS

- Capillary electrophoresis system Capel-115
- Spare capillary cassette
- Elforun software package
- Kits & sets for analysis (by request)
- Service agreement (by request)

## SERVICES

Installation of Capel-115 CE systems can be carried out at a customer's site by our service engineers.

## WARRANTY

All Capel-115 CE systems are covered by a full 1-year warranty.



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