



MAIN APPLICATIONS

Environmental analysis

- Natural, drinking, and waste water (F^- , Cl^- , Br^- , I^- , NO_2^- , NO_3^- , PO_4^{3-} , SO_4^{2-} , acetate, NH_4^+ , Ba^{2+} , Ca^{2+} , K^+ , Mg^{2+} , Na^+ , and other inorganic and organic ions)
- Soils, sludge, and sediments (inorganic and organic anions and cations)

Animal feeding & Veterinary

- Fodder, mixed fodder, and mixed fodder raw materials (amino acids, cations and anions, organic acids, vitamins)
- Veterinary drugs (antibiotics, antiprotozoal agents)

Biopharma

- Quality control of therapeutic recombinant proteins
- Protein separation
- Enantiomers separation
- Pharmacokinetics studies

Food testing

- Bottled water (inorganic and organic anions and cations)
- Carbonated drinks and juices (sweeteners, preservatives, synthetic dyes, antioxidants, vitamins, inorganic cations and anions, organic acids, sugars)
- Strong drinks (inorganic cations and anions, aromatic aldehydes, organic acids, sugars)
- Tea, coffee (caffeine, polyphenols)
- Foodstuff (preservatives and other food additives, organic acids, amino acids, amines, proteins)



ADVANTAGES OF CAPEL®-205

High capacity autosampler for sealed vials with automatic opening

- Standard Eppendorf type vial (1.5 mL)
- No sample evaporation
- No sample contamination

Easy-to-change capillary cassette

- Capillary cassette change just in a few seconds

Extended instrumental options

- Complete control of the instrument from a PC
- Broad range of controlled injection pressures allows analysis of viscous samples
- Reverse sample injection under vacuum: ultra-short analysis time (less than 1 min) and sample stacking to decrease detection limit
- Spectra scanning facilitates peak identification

Precise liquid temperature control of capillary ($\pm 0.1^\circ\text{C}$)

- Extended range of applied buffers, increased efficiency in separation

Powerful software package «Elforun®»

- Increased flexibility in performing analyses of various complexity
- Any kind of complex runs are possible including those with pre-programming of changes in analysis conditions
- Customized report, data export to other programs

Streaming potential control technique

- Improving repeatability of retention time and accuracy of analysis

SPECIFICATIONS

Detection wavelength	190–400 nm, light source – deuterium lamp
Analysis	Reversible constant voltage 1–30 kV in 1 kV steps Current 0–200 μA Pressure gradient 0–99 mbar Programmable changing of wavelength, pressure and voltage during analysis
Injection	By voltage 1–30 kV; by pressure 1–99 mbar
Rinsing	By pressure, 1000 or 2000 mbar
Capillary	Length 30–100 cm Internal diameter 50, 75, 100 μm
Temperature control of capillary	Liquid thermostating, from -10 up to $+30$ $^\circ\text{C}$ from ambient temperature, $\pm 0.1^\circ\text{C}$
Sampler	Autosampler for 59 vials (Standard Eppendorf-type 1.5 mL)
Power requirements	110/220 Vac, 50/60 Hz
Power consumption	250 W
Dimensions/Weight	470x530x410 mm, 30 kg
Control	Elforun® software

EQUIPMENT & OPTIONS

- Capillary electrophoresis system CAPEL®-205
- Spare capillary cassette
- Elforun® software package
- Kits & sets for analysis (by request)

SERVICES

Installation of LUMEX instruments can be carried out at a Customer's site by our service engineers. Personnel training specific to the Customer needs can be also provided.

WARRANTY

All CAPEL®-205 capillary electrophoresis systems are covered by a 12-month warranty.

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