CAPEL-205

Capillary electrophoresis system

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)
- Beer (inorganic cations and anions, hop and bitter acids (humulones and isohumulones), amino acids, organic acids, vitamins)
- 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)
- Milk and milk products (sugars, inorganic cations and anions, organic acids, vitamins, proteins, sweeteners, preservatives)

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 (± 0.1ºC)

- Extended range of applied buffers, increased efficiency in separation

Powerful software package «Elforun»

- Increased flexibility in performing analyses of various complexity
- Any kinds 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 migration time and accuracy of analysis

SPECIFICATIONS

Detection wavelength	190–400 nm, light source – deuterium lamp
Analysis	Constant voltage, from –30 kV to +30 kV in 1 kV steps 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, from –30 kV to +30 kV in 1 kV steps; by pressure, from –100 to 100 mbar in 1 mbar steps
Rinsing	By pressure, 500–2000 mbar in 1 mbar steps
Capillary	Length 30–120 cm Internal diameter 50, 75 μm
Temperature control of capillary	Liquid thermostating, from –10 up to +30 ºC from ambient temperature, ±0.1ºC
Sampler	Autosampler for 59 vials (standard Eppendorf®-type 1.5 mL)
Power requirements	110–240 VAC, 50/60 Hz
Power consumption	170 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 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.

Find your local Lumex Instruments distributor
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