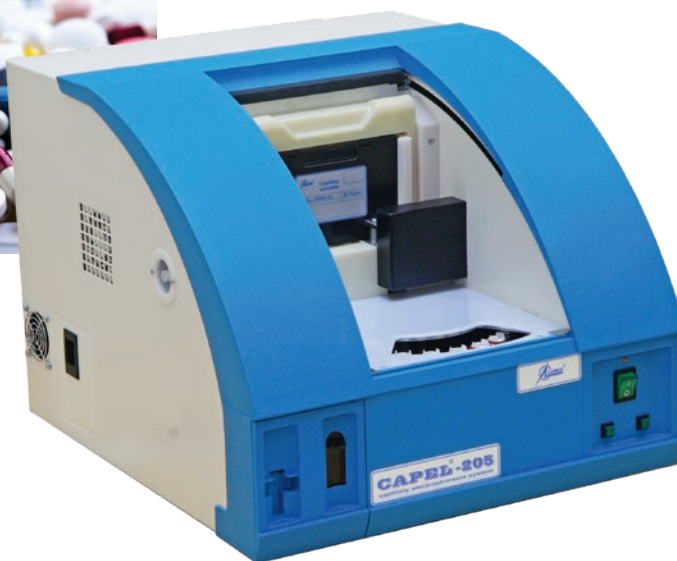


CAPEL-205

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 ($\pm 0.1^\circ\text{C}$)

- ❖ Extended range of applied buffers, increased efficiency in separation

Powerful software package «Elforun»

- ❖ Increased flexibility in performing analyses of various complexity
- ❖ Any 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 $^\circ\text{C}$ from ambient temperature, $\pm 0.1^\circ\text{C}$
Sampler	Autosampler for 59 vials (standard Eppendorf®-type 1.5 mL)
Power requirements	110–240 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 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.

The information and specifications in this publication are subject to change without notice.

LUMEX
INSTRUMENTS

Lumex Instruments Canada
0890278 B.C. Ltd.
Unit 207, 31510 Gill Ave.,
Silver Creek Industrial Park
Mission, B.C., V4S0A1, Canada
Phone: +1 604-820-8085
+1 866-233-6057
E-mail:
sales@lumexinstruments.com
www.lumexinstruments.com

Lumex Analytics GmbH
Naher str., 8
24558 Wakendorf II, Germany
Tel.: +49 (0) 4535 297-756
Fax: +49 (0) 4535 297-783
E-mail: info@lumexanalytics.de
www.lumexanalytics.de

Distribuito da:



via Vicenza 2
20063 Cernusco sul Nav. (MI)
Tel. 02 92106781
info@nuovatecnogalenica.it

