

# CES - 3205

## Capillary Electrophoresis System



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ▶▶ MAIN APPLICATIONS

### Environmental analysis

- Natural, drinking, and waste water (F<sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, I<sup>-</sup>, NO<sub>2</sub><sup>-</sup>, NO<sub>3</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, SO<sub>4</sub><sup>2-</sup>, acetate, NH<sub>4</sub><sup>+</sup>, Ba<sup>2+</sup>, Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup>, Na<sup>+</sup>, and other organic 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

### 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 $\mu$ A 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 $\mu$ m
Temperature control of capillary	Liquid thermostating, from –10 up to +30 °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
- Spare capillary cassette
- 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.

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

## Our Products & Technologies



UV/VIS  
Spectro 2080+  
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Infra FTIR



Optima Gas  
Chromatograph  
3007



Optima Gas  
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Atomic Absorption  
Spectrophotometer



Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



DSC/TGA



Semi Auto Bio  
Chemistry Analyzer



HEMA 2062  
Hematology  
Analyzer



Micro Plate  
Reader/Washer



URINOVA 2800  
Urine Analyzer



Total Organic  
Carbon 3800



Fully Automated  
CLIA



NOVA-2100  
Chemistry Analyzer



PCR/Gradient PCR/  
RTPCR



TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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