Capillary Electrophoresis system

Description
Beckman Coulter PA 800 plus **(More details)**

Location
Rm510A, Biotech Centre 1

Features

Multiple modes of electrophoresis

- Capillary Zone Electrophoresis (CZE)
  - ➢ Separation of charged particles
- Micellar Electrokinetic Capillary Chromatography (MEKC)
  - ➢ Separation of neutral molecules through the use of micellar additives (eg. SDS)
- Capillary Gel Electrophoresis (CGE)
  - ➢ Separation of molecules based on size, shape and charge
- Capillary Isoelectric Focusing (cIEF)
  - ➢ Separation of molecules based on their isoelectric point
- Capillary Electrochromatography (CEC)
  - ➢ Separation of small molecules through a packed capillary

Temperature control of capillary

- By recirculating liquid coolant
- Regulated between 15-60 ^{o}C

Wide range of detectors

- PDA (190-600 nm)
- UV (200 nm, 214 nm, 254 nm, 280 nm)
- LIF (488 nm and 635 nm)

Automated sample introduction

- Typical actual injection volume: 5-50 nL
- Injection by electrokinetic, pressure and vacucm

Applications

- Protein purity determination
  - High resolution SDS-gel separation
- Quantitative IgG purity analysis
- Charge heterogeneity analysis
- Carbohydrate profiling

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