

CAPILLARY ELECTROPHORESIS WITH DAD DETECTION

AGILENT TECHNOLOGIES CE 7100

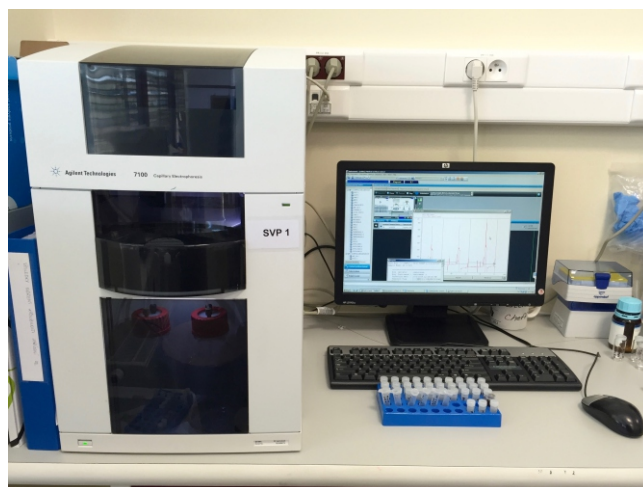
Capillary electrophoresis with diode array detection (CE-DAD) offers fast separations of charged and uncharged compounds ranging from inorganic ions to large polymers or proteins. The technique can be helpful to solve the difficult separation of compounds of interest which could not be achieved by conventional liquid chromatography. CE-DAD could be also useful in case of limited sample amounts.

ACQUIRED INFORMATION

- > High resolution separations of charged, polar and uncharged molecules
- > Smallest sample volume – only a few μL in total, with injection of nL volumes
- > Separation of enantiomers

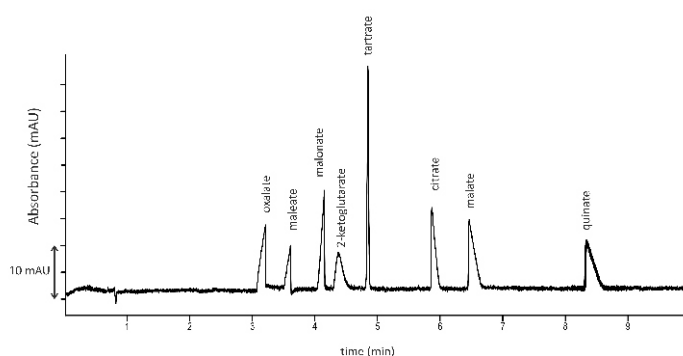
SAMPLE TYPES

- > Liquids, solutions
- > Body fluids (urine, serum, blood, liquor, saliva)
- > Pharmaceutical samples (API, excipients, impurities)
- > Food and beverages sample
- > Forensic samples (drugs and other abused compounds)



MODES, CONDITIONS AND PRECISION

- > Various of electrophoretic techniques – separation based on mobility, pI value, size or hydrophobicity
- > Highest sensitivity for DAD detection – high sensitivity cell option available
- > Pressure and electrokinetic injection modes of samples injection
- > High voltage separations (from -30 kV to 30 kV)
- > Thermostated analysis from 10 °C to 60 °C.
- > Analysis in water based buffers as well as other non-aqueous solvents
- > Laboratory holds the GMP certificate for the pharmaceutical analysis by CE-DAD



Separation of low-molecular carboxylic acids using indirect UV-VIS detection. Analysis of plant extract.

DETAILED INFORMATION ON REQUEST



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