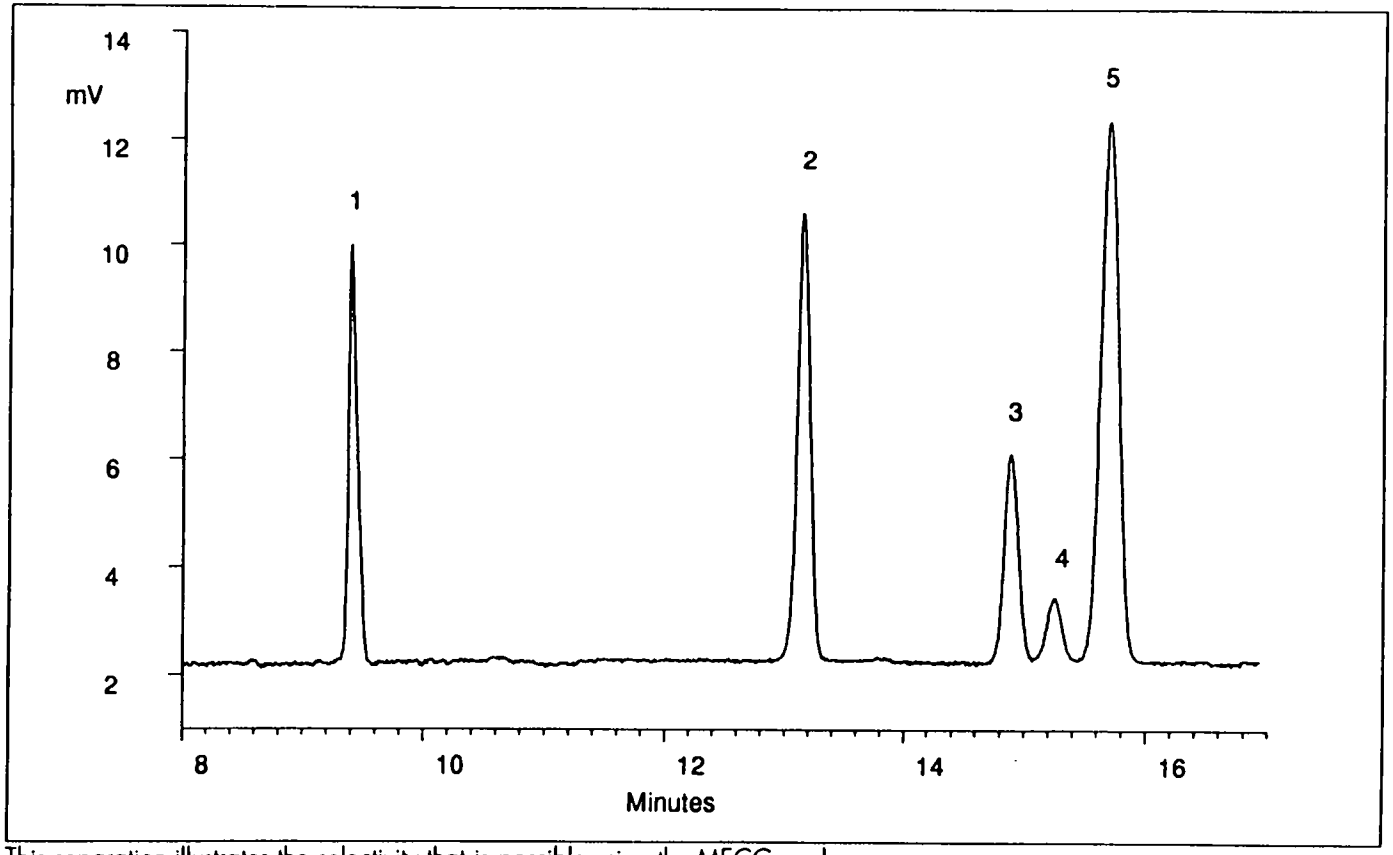
CE Separation of Cocaine and Related Compounds



This separation illustrates the selectivity that is possible using the MECC mode.

Conditions:

Mode: MECC

Capillary: AccuSep 75 micron by 60 cm

Buffer: 20mM phosphate/ borate, pH 9.1

Additive: 50 mM SDS

Voltage: 18KV

Detection: UV @ 214 nm

Injection: 15 second Hydrostatic

Sample:
1) Morphine, 29 ppm
2) Codeine, 29 ppm
3) Amphetamine, 33 ppm
4) Cocaine, 33 ppm
5) Methadone, 33 ppm

Objective:

To separate cocaine from other drugs of abuse that could potentially be present in the same sample.

Details:

This separation illustrates the selectivity that is possible using the MECC mode. This separation could be used to monitor serum or urine samples for the presence of these drugs of abuse.

System:

Waters Quanta 4000 CE System
Waters 845 Data Station

References: