

Vigabatrin, GABA, Aspartate & Glutamate

Simultaneous determination of vigabatrin and amino acid neurotransmitters in brain microdialysates by capillary electrophoresis with Laser Induced Fluorescence detection.

Instruments:

Capillary Electrophoresis: TSP Spectra PHORESIS 100
Detector: Picometrics ZETALIF detector
Laser: He-Cd, Laser 442 nm, 8 mW

Sample:

microdialysates from rat brain (striatum)

Reagents:

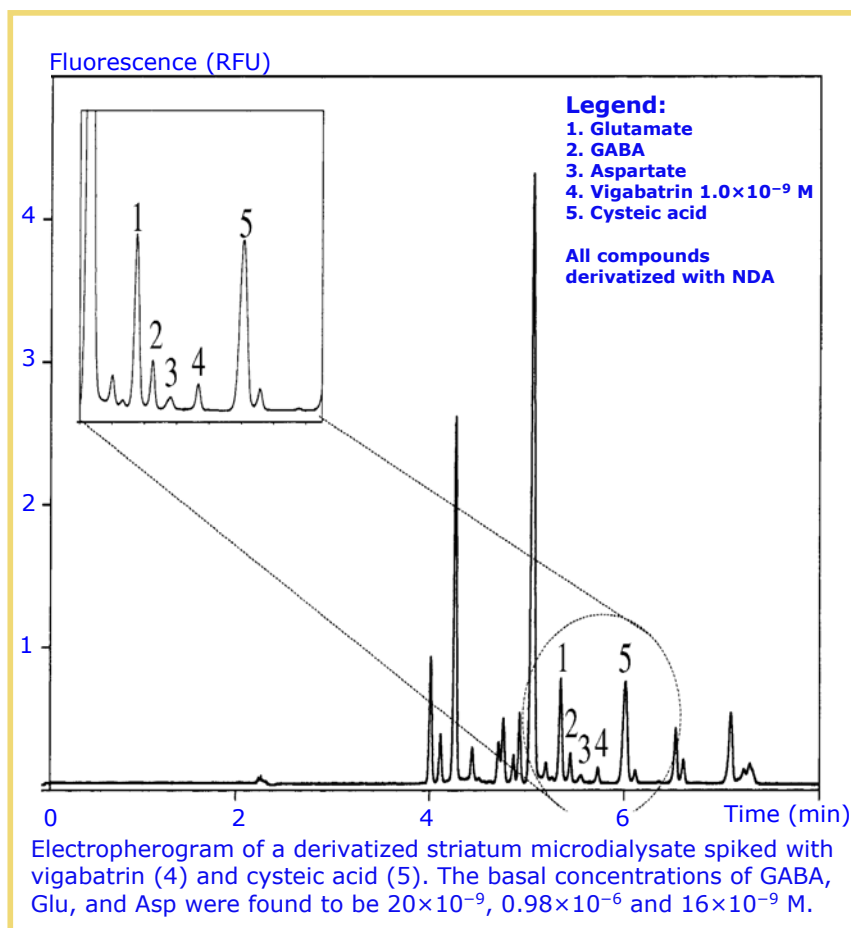
Derivatization agent: Naphthalene Dicarboxaldehyde (NDA)

Methods:

Capillary: 50 μ m ID, 60 cm length (23 cm effective length)
Buffer: pH 9.2, 75 mM sodium borate containing 60 mM SDS and 5 mM HP- β -CD
Voltage: 30 Kv
Injection: 1 second at 200 mbar

Limit of Detection*:
0.4 to 3 nM

* Estimated for a S/N of 3



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