

Norepinephrine, Epinephrine & Dopamine

Determination of Norepinephrine, Epinephrine and Dopamine by µHPLC and Laser Induced Fluorescence Detection

Instruments:

HPLC pump: Agilent 1100 series + LC Packings Acurate™ Flow Splitter
Injector: LC packings Famos Automated Injector
Detector: Picometrics ZETALIF 2000 detector
Laser: Argon Ion laser 488 nm, 25 mW

Sample:

Standard solution in water of Norepinephrine, Epinephrine and Dopamine.

Reagents:

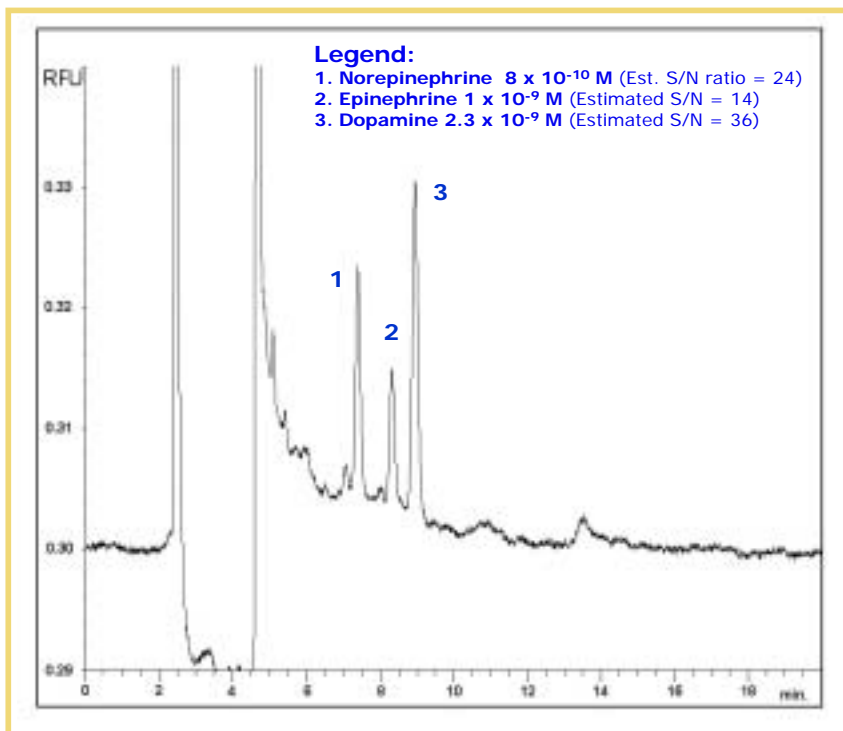
4 fluoro-7 nitrobenz-2-oxa 1,3-diazole or 4 fluoro-7 nitrobenzofurazan or NBD fluoride (NBD-F)

Methods:

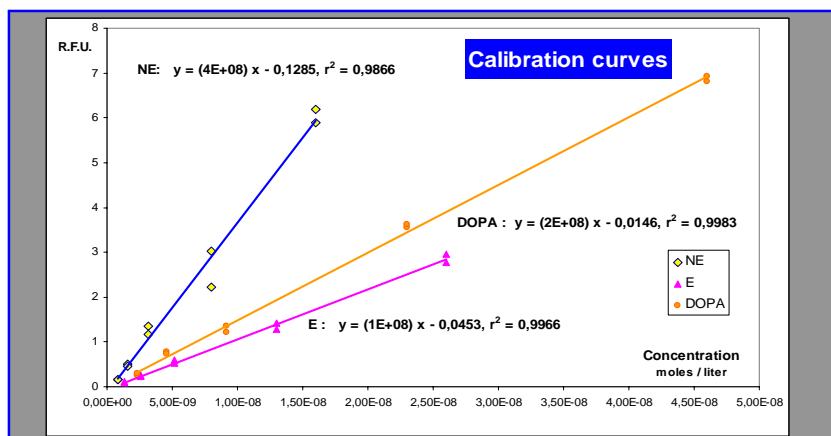
Mobile Phase: Isocratic conditions, 10 mM Na₂ HPO₄ pH 8.00 /Acetonitrile (30/70)
Flow rate: 4 µL/min
Injection volume: 5 µL
Column: micro column LC Packings FUS 15-03-C18 inertsil ODS-3, 3 µm, 300 µm ID x 15 cm
Detector Capillary: 75 µm ID

Limit of Detection*:
 2×10^{-10} M (5 µl injected)

* Estimated for a S/N of 3



Source: Picometrics application lab. 11/2001.



more on www.picometrics.com