

# Norepinephrine, Epinephrine & Dopamine

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

## Instruments:

HPLC pump: Agilent 1100 series + LC Packings Accurate™ 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:

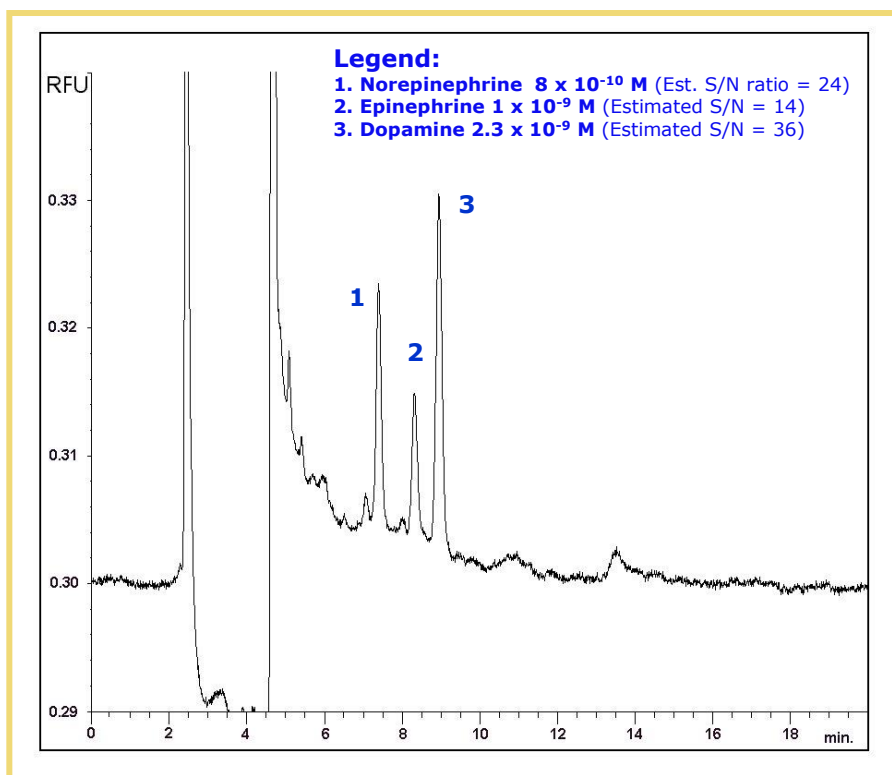
4 fluoro-7 nitrobenz-2-oxa 1,3-diazole or 4 fluoro-7 nitrobenzofurazan or NBD fluoride (NBD-F)

## Methods:

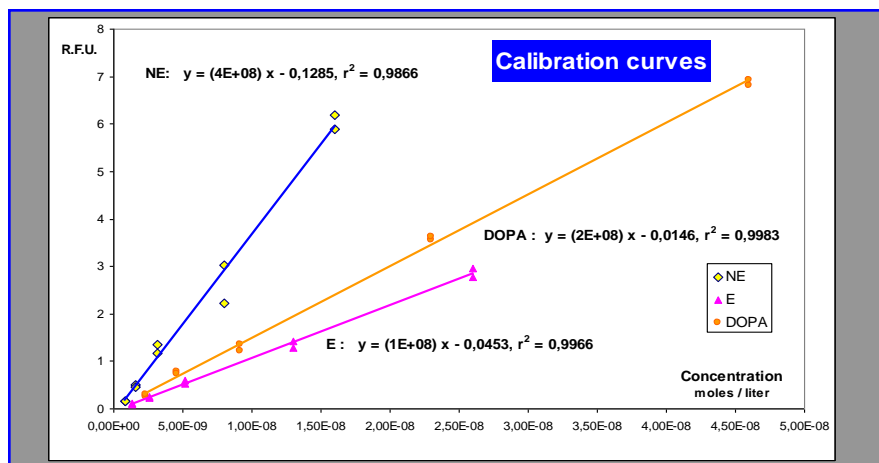
Mobile Phase: Isocratic conditions, 10 mM Na<sub>2</sub> HPO<sub>4</sub> pH 8.00 /Acetonitrile (30/70)  
Flow rate: 4 µL/min  
Injection volume: 5 µL  
Column: micro column LC Packings FUS 15-03-C18 inertsil ODS-3, 3 µm, 300 µm ID x 15 cm  
Detector Capillary: 75 µm ID

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

\* Estimated for a S/N of 3



Source: Picometrics application lab. 11/2001.



more on [www.picometrics.com](http://www.picometrics.com)