

# Catecholamines & GABA

Determination of Norepinephrine, Dopamine & GABA, using 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: He-Cd laser, 442 nm, 30 mW

## Sample:

Standard solution of Catecholamines and GABA

## Reagents:

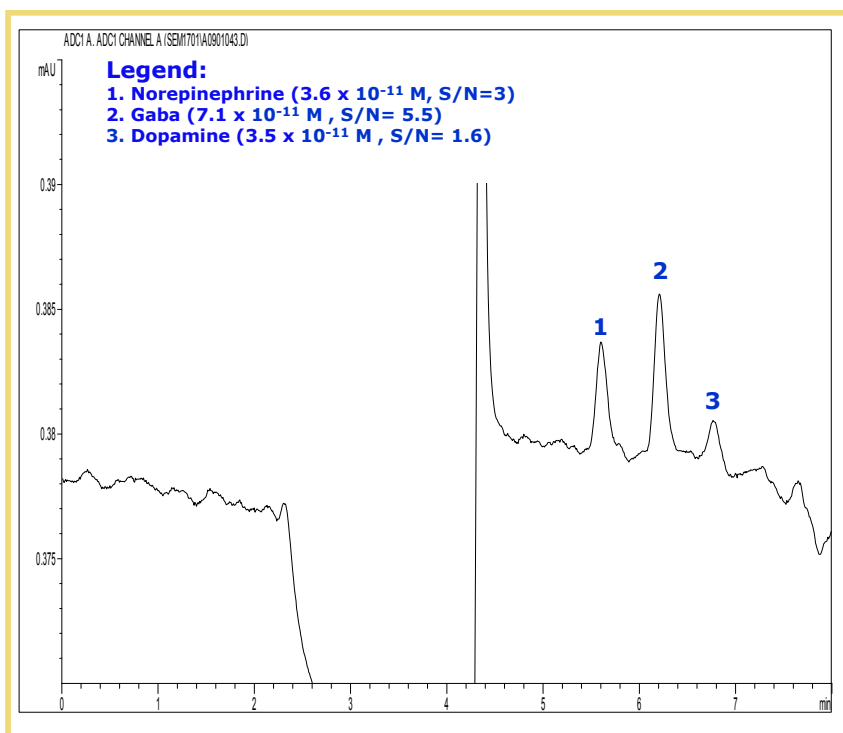
Derivatization agent: Naphthalene Dicarboxaldehyde (NDA)

## Methods:

Mobile Phase: Isocratic conditions, 20% buffer (20mM sodium citrate, pH 2,9), 80% acetonitrile  
Flow rate: 4 µL/min  
Injection volume: 5 µL  
Column: micro column LC Packings PepMap™, C18, 3 µm, 300 µm ID x 15 cm  
Detector Capillary: 75 µm ID

**Limit of Detection\*:**  
5 to 10 Picomolar range  
(25 to 50 attomoles)

\* Estimated for a S/N of 3



Source: Picometrics application lab.