

# 2.5 Dihydroxybenzoic acid

Determination of 2.5 Dihydroxybenzoic acid by  $\mu$ HPLC 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, 325 nm, 15 mW

## Sample:

Standard solution of 2.5 Dihydroxybenzoic acid in Water.

## Reagents:

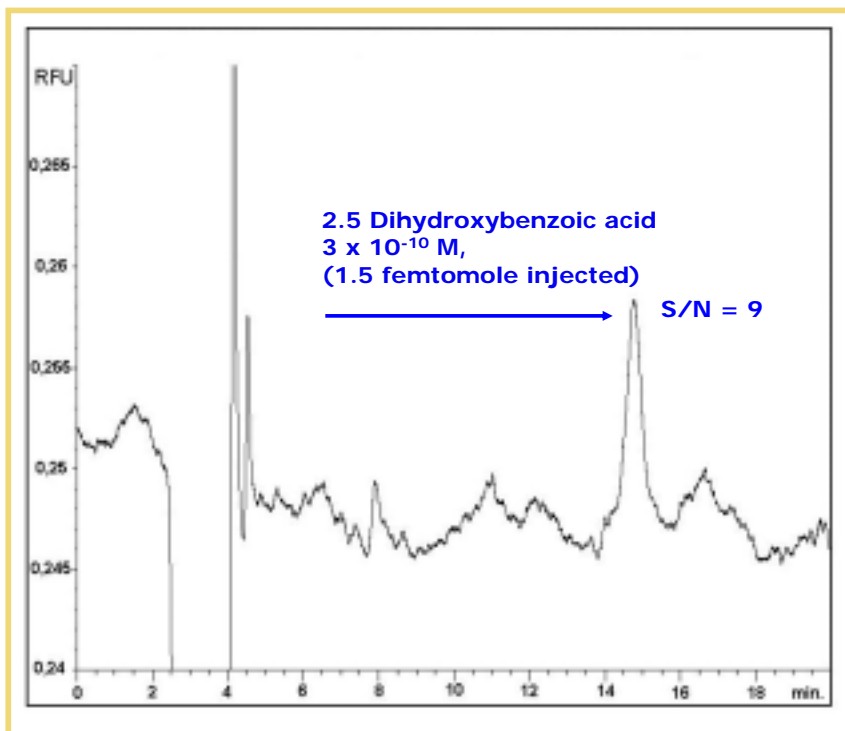
None (Naturally fluorescent compound)

## Methods:

Mobile Phase: Isocratic conditions, 50 % water adjusted at pH 3.8 with acetic acid / 50 % Methanol  
Flow rate: 4  $\mu$ L/min  
Injection volume: 5  $\mu$ L  
Column: micro column LC Packings FUS 15-03-C18 Inertsil ODS-3, 3  $\mu$ m, 300  $\mu$ m ID x 15 cm  
Detector Capillary: 75  $\mu$ m ID

**Limit of Detection\*:**  
 $10^{-10}$  M (5  $\mu$ l injected)

\* Estimated for a S/N of 3



Source: Picometrics application lab. 11/2001.