

Pyrene

Determination of Pyrene 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, 325 nm, 15 mW

Sample:

Standard solution in water

Reagents:

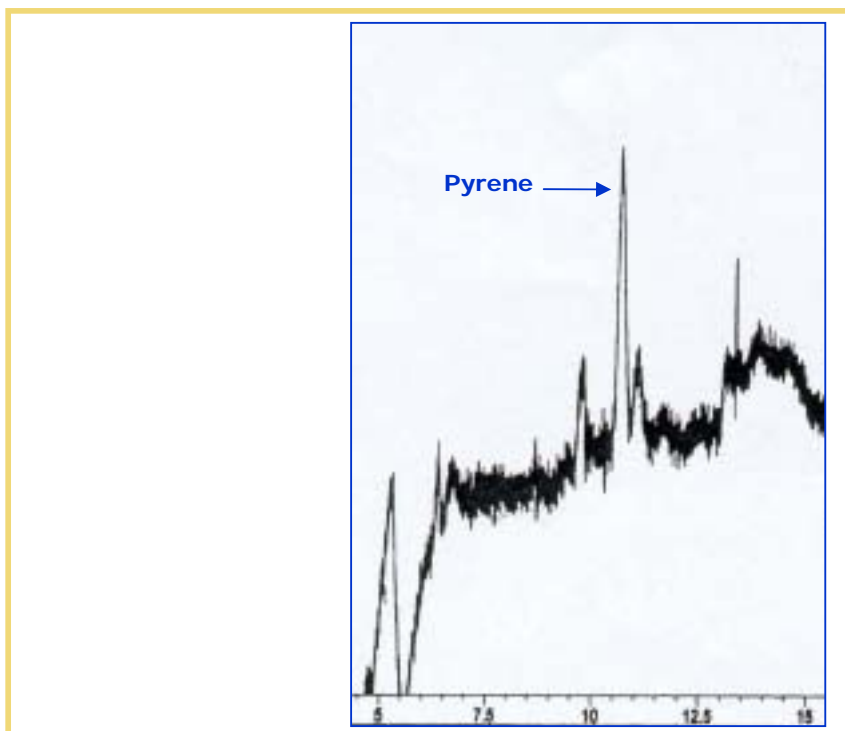
None (Naturally fluorescent compound)

Methods:

Mobile Phase: Acetonitrile/water (91/9 v/v)
Flow rate: 4 µL/min (0.4 mL/min at the pump)
Injection volume: 1 µL (i.e. $5 \cdot 10^{-16}$ moles)
Column: micro column LC Packings PepMap™, C18,
3 µm, 300 µm ID
Detector Capillary: 50 µm ID

Limit of Detection*:
 $5 \times 10^{-10} M$

* Estimated for a S/N of 3



Source: Picometrics application lab.

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