

Riboflavin (Vit. B2)

Determination of Riboflavin using µHPLC and Laser Induced Fluorescence Detection

Instruments:

HPLC pump: Agilent 1100 series + LC Packings
Acurate™ Flow Splitter
Injector: Valco injector, internal loop 0.5 µL
Detector: Picometrics ZETALIF 2000 detector
Laser: Argon Ion laser 488 nm, 25 mW

Sample:

Standard solution of Riboflavin in water

Reagents:

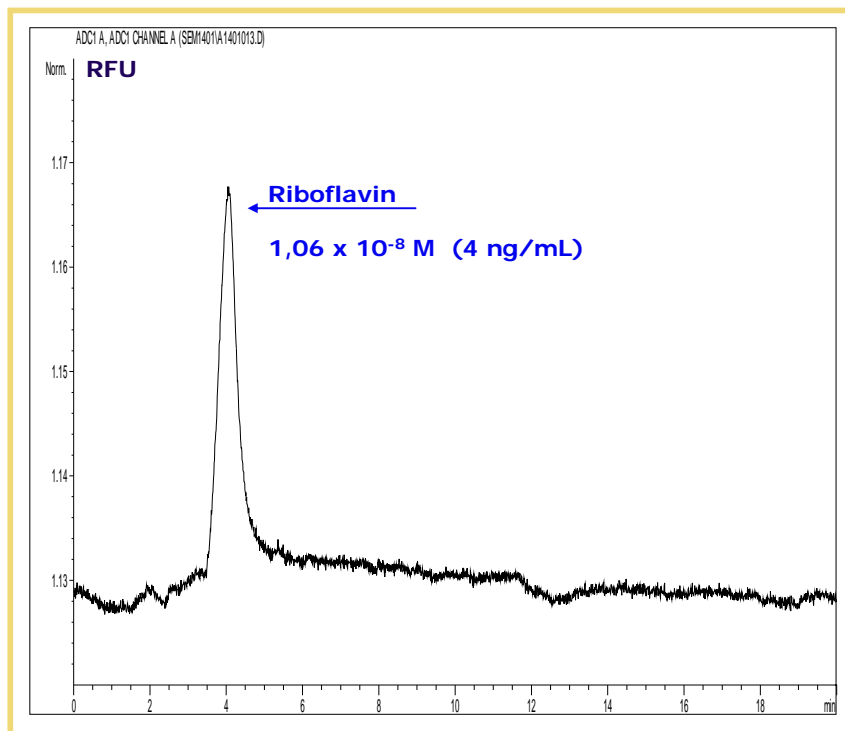
None (Naturally fluorescent compounds)

Methods:

Mobile phase: Isocratic conditions, water / acetonitrile (40/60)
Flow rate: 4 µL/min
Injection volume: 0.5 µL
Column: Zorbax, SBC 185 µm, 0.5 x 150 mm
Detector Capillary: 75 µm ID

Limit of Detection*:
1.3 nM or 0.5 ng/mL

* Estimated for a S/N of 3



Source: Picometrics application lab.

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