

# Tryptophan

Determination of Tryptophan using Capillary Electrophoresis and Laser Induced Fluorescence Detection

## Instruments:

Capillary Electrophoresis: TSP Spectra PHORESIS 100  
Detector: Picometrics ZETALIF 2000 detector  
Laser: DPSS 266 nm, 2 mW

## Sample:

Standard Solution  $5 \times 10^{-9}$  M

## Reagents:

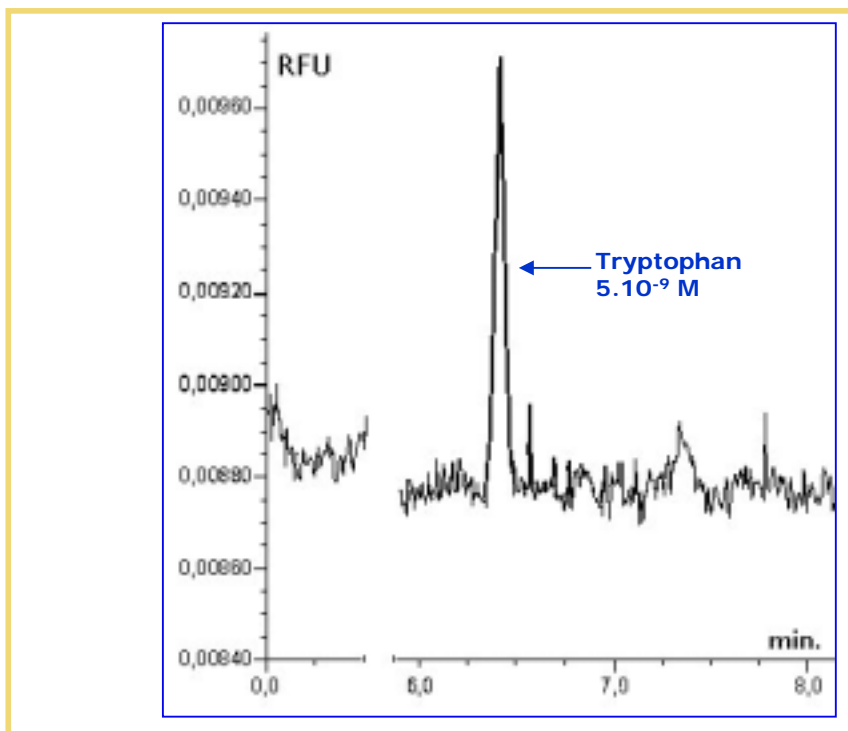
None (Naturally fluorescent compounds)

## Methods:

Capillary: 75  $\mu$ m ID, 75 cm effective length  
Buffer: 20 mM Borate (pH = 9.2)  
Voltage: 30 kV  
Injection: 4 sec., 700 mBar

Limit of Detection\*:  
75 Attomoles

\* Estimated for a S/N of 3



Source: Picometrics application lab.