

# Peptides

Determination of Peptides by Capillary Electrophoresis and Laser Induced Fluorescence Detection

## Instruments:

Capillary Electrophoresis: Agilent CE  
Detector: Picometrics ZETALIF 2000 detector  
Laser: Argon Ion laser 488 nm, 15 mW

## Sample:

Standard Solution of 5 Peptides  $5 \times 10^{-11}$  M each

## Reagents:

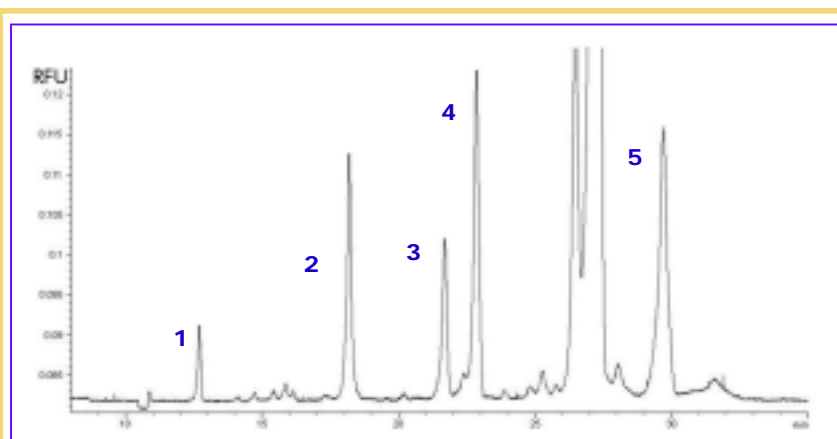
Derivatization agent: Fluorescein Isothiocyanate (FITC)

## Methods:

Capillary: 50  $\mu$ m ID, 76 cm length (62 cm effective length)  
Buffer: 40 mM Borate, 10% Ethylene Glycol, pH = 9.2  
Voltage: +23 kV, 54  $\mu$ s  
Injection: 50 mBar, 10 min, with 2 min reverse polarity -23 kV

Limit of Detection\*:  
10 Attomoles

\* Estimated for a S/N of 3



Each peptide  $5 \times 10^{-11}$  M

### Legend

1. Bradykinin
2. Angiotensin II
3. Substance P
4. Leucine – Enkephaline
5. Tryptophan - Leucine

Source: Picometrics application lab.