Application Note
Reference ***AN 033-03A***

CE-LIF **266 nm**

EPO (Erythropoietin)

Determination of Erythropoietin using Capillary Electrophoresis and Laser Induced Fluorescence Detection

Limit of Detection*:
0.1 mg/L (75 Attomoles injected)

** Estimated for a S/N of 3*

Instruments:
Capillary Electrophoresis: Agilent CE
Detector: Picometrics ZETALIF 2000 detector
Laser: DPSS Laser 266 nm, 5 mW

Sample:
Standard Solution in water

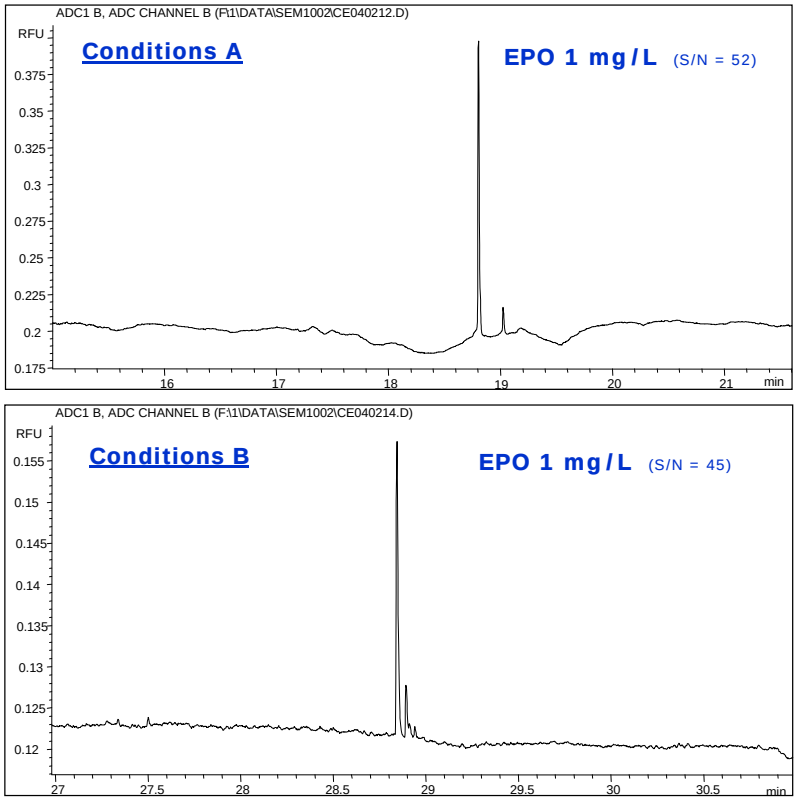
Reagents:
None (Naturally fluorescent compounds)

Methods:
Capillary: 50 µm ID, 56 cm effective length (tot. length 65 cm)

- Conditions A
Buffer: 50% methanol,1% formic acid, 49% doubly distilled water
Voltage: 30 kV (8µA)
Injection: 15 sec. at 50 mBar

- Conditions B
Buffer: 200 mM Sodium Phosphate buffer (pH = 4.0)
Voltage: -15 kV (70 µA)
Injection: 15 sec. at 50 mBar

Additional information:
- Estimated injected volume: approx. 22 nL for both methods
- MW of EPO 30 000 Daltons



Source: Picometrics application lab. 03/2002

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