

QC of Immunoglobulins

Detection of an IgG by Capillary Zone Electrophoresis and Native Laser Induced Fluorescence, compared to LIF detection after derivatization (See App. Note AN 042)

Instruments:

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

Sample:

Proprietary Humanized Mab, PM 150 kD
Dilutions in a solution containing histidine 10 mM and NaCl 150 mM

Reagents:

None (Naturally fluorescent compounds)

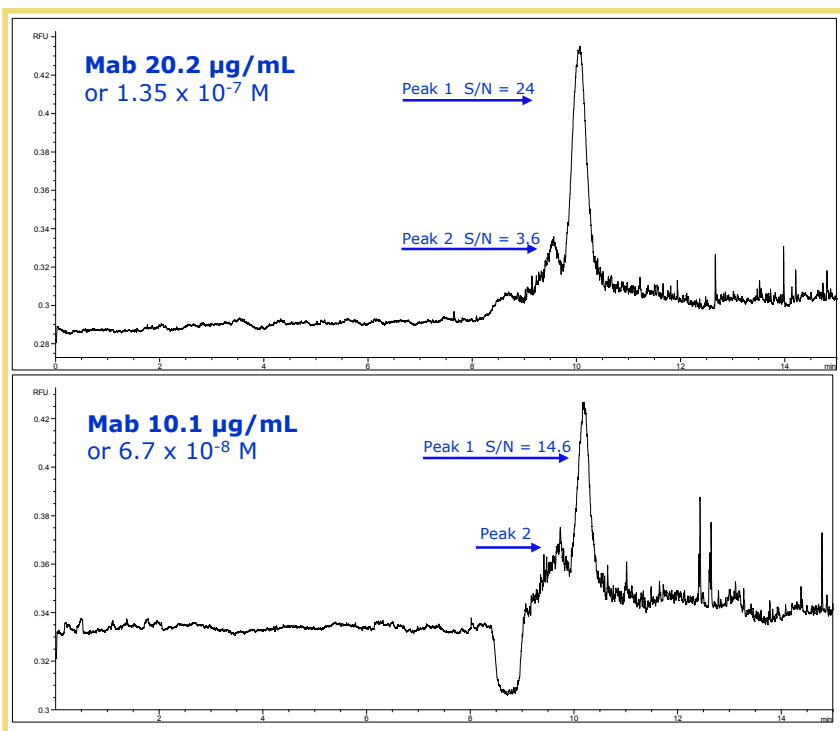
Methods:

Capillary: 75 μ m ID, 55 cm effective length, 25°C
Buffer: Sodium Tetraborate 40 mM & Triethylamine (TEA) 25 mM
Voltage: +15 kV
Injection: 20 sec. at 50 mbar.

* Two isoforms are detected, the answers of which depend on the number of Tryptophan and Tyrosine they contain.
The same antibody is also shown detected by LIF at 488 nm after derivatization, see AN 042.

Limit of Detection*:
2 to 17 μ g/mL

* Estimated for a S/N of 3



Source: Picometrics application lab. 08/2002