

# QC of Immunoglobulins

Detection of a derivatized IgG by Capillary Zone Electrophoresis and Laser Induced Fluorescence, compared to LIF detection based on native Fluorescence, (See App. Note AN 041)

## Instruments:

Capillary Electrophoresis: Agilent CE  
Detector: Picometrics ZETALIF 2000 detector  
Laser: Argon Ion laser 488 nm, 17 mW

## Sample:

Proprietary Humanized Mab, PM 150 kD, diluted in doubly distilled water

## Reagents:

Derivatization agent: CFSE (Carboxyfluorescein succinimidyl ester) diluted in Dimethylformamide 0.1 M

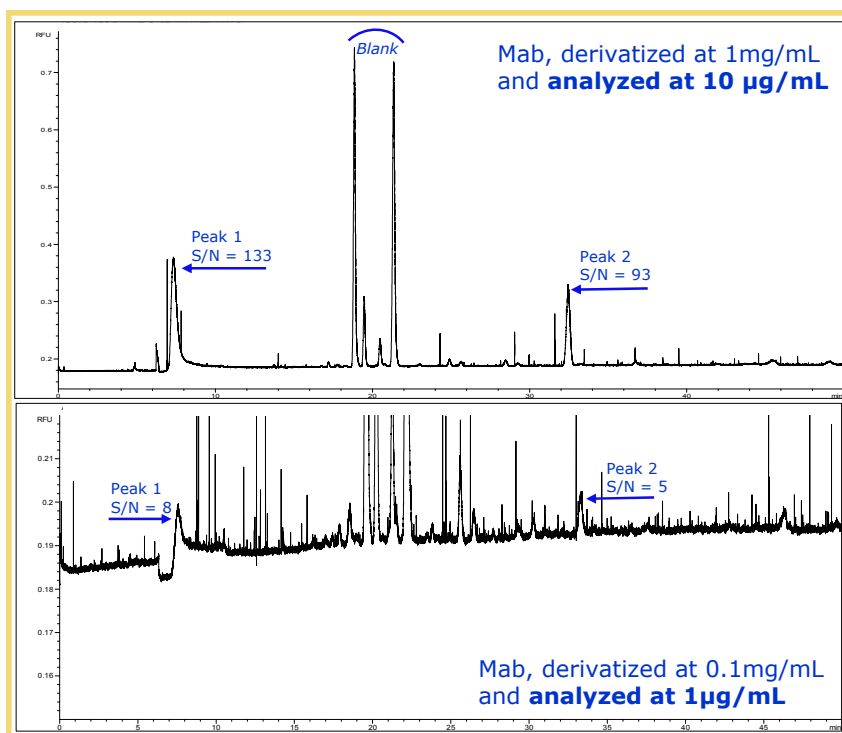
## Methods:

Capillary: 50  $\mu$ m ID, 50 cm effective length, 25°C  
Buffer: Sodium Tetraborate 100 mM, pH=9.2  
Voltage: +20 kV  
Injection: 10 sec. at 50 mbar.

\* Two isoforms are detected.  
The same antibody is also shown detected by LIF at 266 nm (native fluorescence), see AN 041.

Limit of Detection\*:  
> 1  $\mu$ g/mL

\* Estimated for a S/N of 3



Source: Picometrics application lab. 08/2002