

# Oligonucleotides

Application note Ref : AN 045-03A

## Determination of Oligonucleotides

using Capillary Electrophoresis and Laser Induced Fluorescence Detection

**Limit of Detection\*:**  
**< 100 ng/mL**

\*Estimated for a S/N of 3

**Instruments:**

Capillary Electrophoresis: Agilent CE  
 Detector: Picometrics ZETALIF detector  
 Laser: Diode 650 nm, 15 mW (at the laser head)

**Samples:**

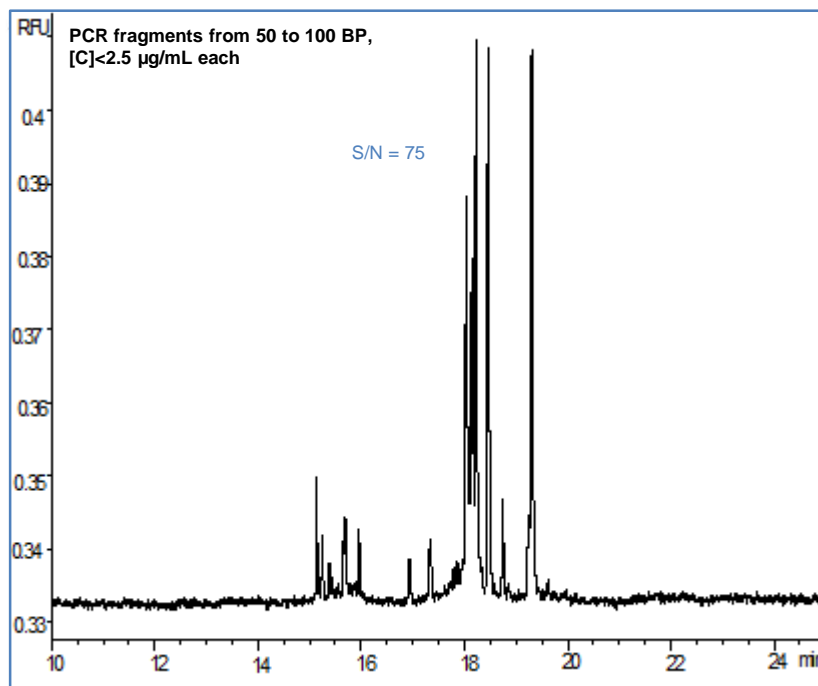
Unknown PCR products 50 to 100 Base Pairs (BP), diluted in Tris 89 mM - EDTA 2 mM buffer

**Reagents:**

Derivatization agent: Cy5 dye, Amersham

**Methods:**

Capillary: CEP Coated capillary from Agilent Technologies (ref. G1600-62318), 75 µm ID, 89 cm length (75 cm effective length), Temp: 20°C  
 Buffer: DNA buffer solution for HPCE (Agilent Technologies 8500-6784) and hydroxyethyl cellulose (3% w/v)  
 Voltage: -30 kV, (-50 µA)  
 Injection: - 8 kV, 5 seconds



Source: Picometrics Application Laboratory 11/2001