

Oligonucleotides

Determination of Oligonucleotides by Capillary Electrophoresis and Laser Induced Fluorescence Detection

Instruments:

Capillary Electrophoresis: Agilent CE
Detector: Picometrics ZETALIF 2000 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:

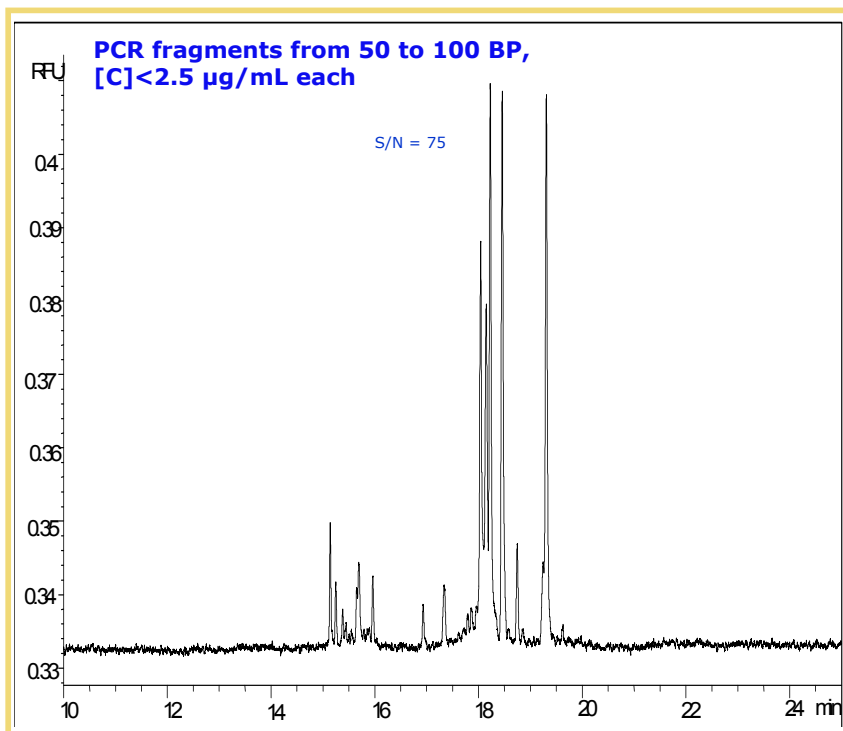
Derivatization agent: Cy5 dye, Amersham

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

Limit of Detection*:
< 100 ng/mL

* Estimated for a S/N of 3



Source: Picometrics application lab. 11/2001