

The DNA 10K kit is intended to determine the size profile of double stranded DNA samples in the 1 to 10 kb range with the BIABooster-CE system. The kit is designed for the analysis of 50 samples and associated standards. The sensitivity and the sizing range of the method allow to fully characterise genomic DNA.

Kit Content



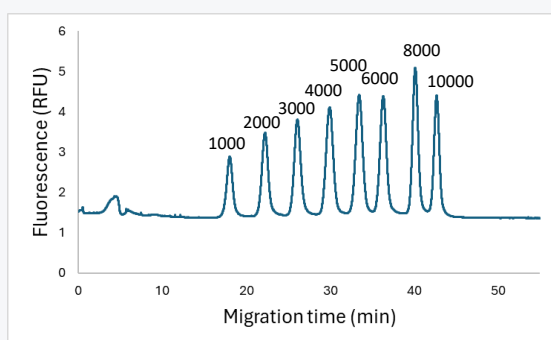
DNA 10K Kit (ref : 16-BB-DNA 10K)

- Running buffer DNA 10K, 40 mL
- Capillary conditioning solution, 10 mL
- Fluorescent dye, 10 tubes of 25 μ L
- DNA10K ladder, 3 tubes of 55 μ L

65 glass inserts

Large DNA separation

A reference ladder is analysed every 5 samples to convert the fluorescence trace into a profile giving mass concentration according to DNA size.



Standard ladder used in the DNA10K kit

The ladder is composed of 8 bands from 1000 base pairs to 10000 base pairs. The total concentration is 42 μ g/ μ L.

Specifications

Sample type	Double stranded DNA
Size range	1 – 10 kbp
LOD ⁽¹⁾	10pg/mL à 10kb et 30 pg/mL à 1kb
Sample volume	10 μ L (1 μ L injected)
Sample salt concentration	up to 15mM
Sizing Accuracy	+/- 3% (de 1 à 6kb) et +/- 5% (de 6 à 10kb)
Sizing Reproducibility	< 3% CV
Quantification Accuracy	+/- 20%
Quantification Precision	< 20% CV
Dynamic range ⁽²⁾	300

(1) Limit of Detection: the concentration for a single fragment which gives a signal-to-noise ratio of 3 (peak height). For smears, the LOD is usually 20-50 times higher.

(2) Dynamic Range: ratio between the highest and the lowest concentrations giving a quantifiable result.