



The DNA 1K kit is intended to determine
the size profile of double stranded DNA samples
in the 100 to 1500 bp range with the BIABooster-CE system

The kit is designed for 50 samples and associated standards.
The sensitivity and the sizing range of the method allow to fully characterise purified DNA

KIT CONTENT

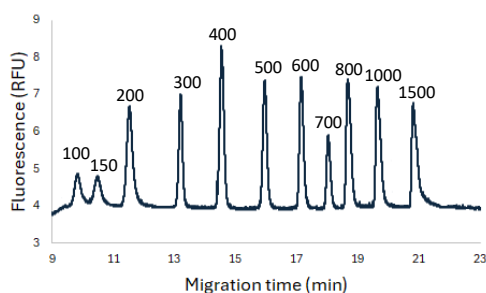


DNA 1K Kit (ref : 16-BB-DNA 1K)

- Running buffer DNA 1K, 40 mL
- Capillary conditioning solution, 10 mL
- Capillary washing solution, 10 mL
- Fluorescent dye, 10 tubes of 25 μ L
- DNA 1K ladder, 3 tubes of 55 μ L
- 65 glass inserts

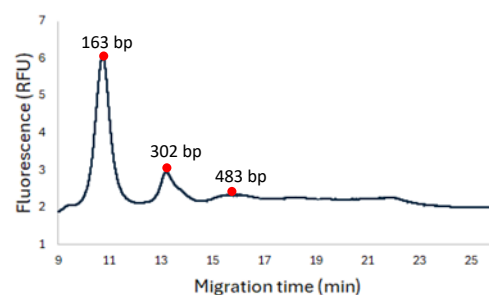
DNA SEPARATION

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 DNA1K kit

The ladder is composed of 11 bands from 100bp to 1500bp.
The total concentration is 32 pg/ μ L



Typical cfDNA size profile of a healthy donor

SPECIFICATIONS

Sample type	Double stranded DNA
Size range	0.1 – 1.5 kb
LOD, standard method ⁽¹⁾	10 pg/mL at 1 kb and 100 pg/mL at 100 bp
LOD, multiple injection method ⁽¹⁾	1 pg/mL at 1 kb et 10 pg/mL at 100 bp
Sample volume	10 μ L (1 μ L injected)
Sample salt concentration	up to 15 mM
Sizing Accuracy	+/- 3%
Sizing Reproducibility	< 3% CV
Quantification Accuracy	+/- 20%
Quantification Precision	< 20% CV
Dynamic range ⁽²⁾	1000

(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.