

DNA 100K KIT MULTI-CHANNEL BIABooster

The DNA 100K kit is intended to determine
the size profile of double stranded DNA samples
in the 1 to 100 kb range with the Multi-channel BIABooster system

The kit is designed to analyse 40 samples and associated standards
The sensitivity and the sizing range of the method allow to fully characterise genomic DNA

KIT CONTENT

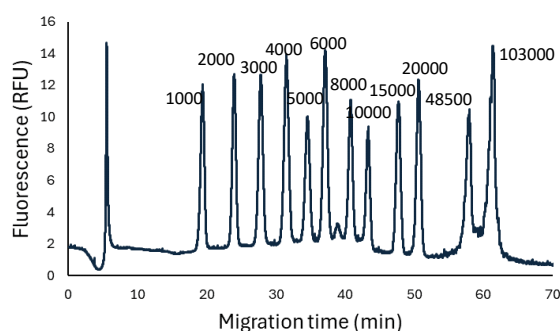


DNA 100K Kit (ref : 23-BBCNA-DNA100K)

- Running buffer DNA 100K, 40 mL
- Capillary conditioning solution, 20 mL
- Capillary washing solution, 20 mL
- Fluorescent dye, 5 tubes of 55 µL
- DNA 100K ladder, 2 tubes of 2 µL

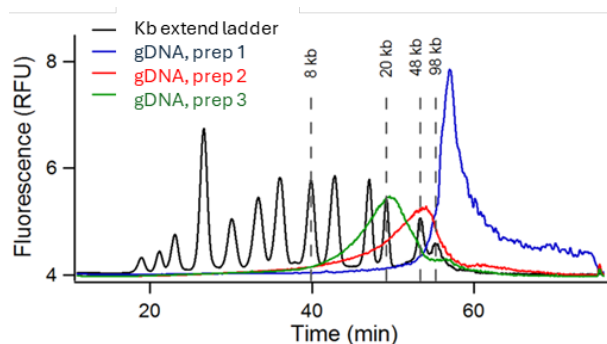
LARGE DNA SEPARATION

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 DNA100K kit

The ladder is composed of 12 bands
from 1000 bp to 103 000 bp.
The total concentration is 23 pg/µL.



Fluorescence profile of 3 different preparations of genomic DNA

SPECIFICATIONS

Sample type	Double stranded DNA
Size range	1 – 100 kbp
LOD ⁽¹⁾	50 pg/mL at 100 kbp and 20 pg/mL at 20 kbp
Sample volume	10 µL (1 µL 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⁾	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.