cfDNA KIT
MULTI-CHANNEL BIABooster

The cfDNA kit is aimed to determine
the size profile of double stranded DNA samples
directly from 100µL of plasma samples in the 100 to 1500 bp range
with the Multi-channel BIABooster

The kit is designed for 40 samples and associated standards

KIT CONTENT

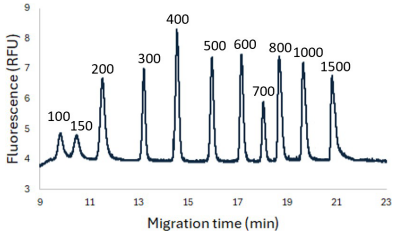
cfDNA Kit (ref : 23-BBCNA-cfDNA)

- Lysis buffer
- Proteinase K
- RNase 1U/µL
- Capillary coating solution
- Running buffer A
- Running buffer B
- Capillary conditioning solution
- Capillary washing solution
- Fluorescent dye
- DNA ladder

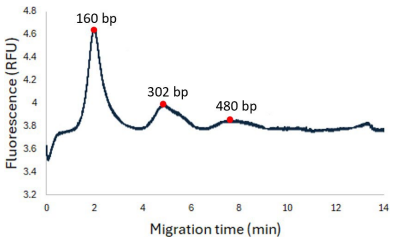
40 micro-spin filters 0.45 µm

DNA SEPARATION

cfDNA within human plasma is first released from vesicles and histones by proteinase K digestion and detergent. It is then analysed using the BIABooster system. In each channel, a standard 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 cfDNA kit
The ladder is composed
of 11 bands from 100 bp to 1500 bp
The total concentration is 32 pg/µL



Typical cfDNA size profile
of a healthy donor directly
measured from plasma samples

SPECIFICATIONS

Sample type	Plasma samples
Size range	0.1 – 1.5 kb
LOD, standard method (1)	50 pg/mL at 100 bp and 5 pg/mL at 1 kb
Sample volume	10 µL (1 µL injected)
Sample salt concentration	up to 130 mM
Sizing Accuracy	+/- 3%
Sizing Reproducibility	< 3% CV
Quantification Accuracy	+/- 20%
Quantification Precision	< 20% CV
Dynamic range (2)	800

(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

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