Sage ELF™

DNA Fractionation for NGS

Separate a DNA sample into Twelve Contiguous Size Fractions

Features:

- Reproducible collection of contiguous DNA fractions
- Flexible programming
- Pulse field electrophoresis allows fractionation of HMW DNA

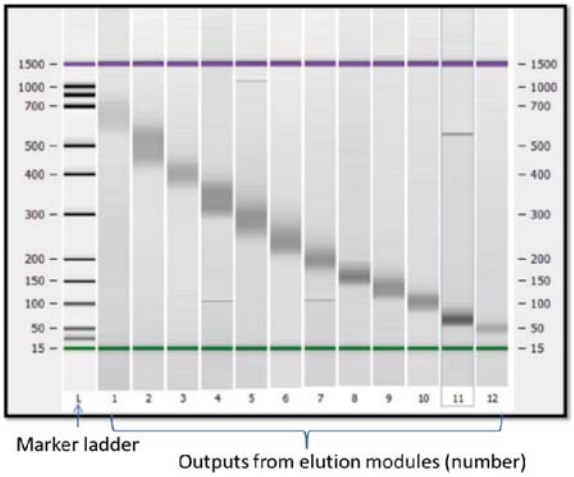
Benefits:

- Generates discrete insert sizes for mate-pair sequencing
- Collects narrow size-distributed fractions while preserving remaining sample
- Saves labor, requires minutes of hands-on time to use

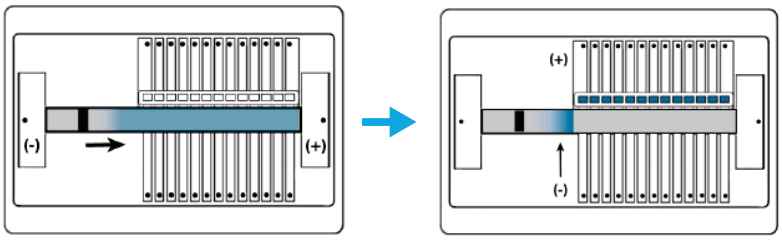
1. Load sheared DNA into 1or 2 disposable pre-cast gel cassettes and set a run threshold in software.

The Sage ELF System

2. Fractionate DNA into 12 sub-samples using electrophoretic lateral fractionation.



Bionalyzer analysis of fractions collected with the Sage ELF from a restriction digest of E.coli genomic DNA.



Separate DNA in an agarose gel column

Fractions are electro-eluted into 12 membrane-bound wells

3. Collect the target fractions, in buffer, with a standard pipette.

Fractionation Ranges:
200bp - 2.8 kb
1 - 18 kb
10 - 40 kb

sage science

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