

500-Red Fragment Size Standard User Manual

Product description:

- High-quality internal size standards for precisely determining DNA size and abundance in various fragment analysis applications such as mutations detection, genotyping and DNA profiling.
- The ladder provides 16 discrete bands ranging from 35 bp to 500 bp: 35, 50, 75, 100, 139, 150, 160, 200, 250, 300, 340, 350, 400, 450, 490, and 500 bp.
- Ready-to-use in various fluorescence-detection instruments such as Applied Biosystems® 3100 3130/3130xl and 3730/3730xl Genetic Analyzers.
- High-performance alternative to the Applied Biosystems® ROX™ Size Standard.

Catalog Number:

Catalog Number	Unit Size
2404040	400µl
2404010	100µl
2403025	25µl

Kit content:

- 400 µl DNA ladder in two tubes (200 µl per tube).
- Sufficient for at least 800 analyses with 0.25 to 0.5µl per load.

Storage conditions:

Store up to one year at 2-8°C with minimal light exposure.

Instructions for use:

- Mix each tube of the 500-Red Fragment Size Standard thoroughly and centrifuge briefly to collect the liquid at the bottom of the tube before use.
- Set up a typical loading mixture as in the Table below. Optimize the ratios of the DNA sample (PCR product) and size standard if necessary.

Components	Amount in the mixture
500-Red Fragment Size Standard	0.25-0.5 µl
DNA Sample	0.5 µl
Formamide (Cat. No. 090025)	add to a final 10 µl volume

- Load the mixture into each well.
- Cover wells and centrifuge briefly to remove air bubbles.
- Heat the sample mixture for 3 minutes at 95 °C and hold at 4 °C.
- After a brief spin, load the sample on the sequencer and run capillary electrophoresis.

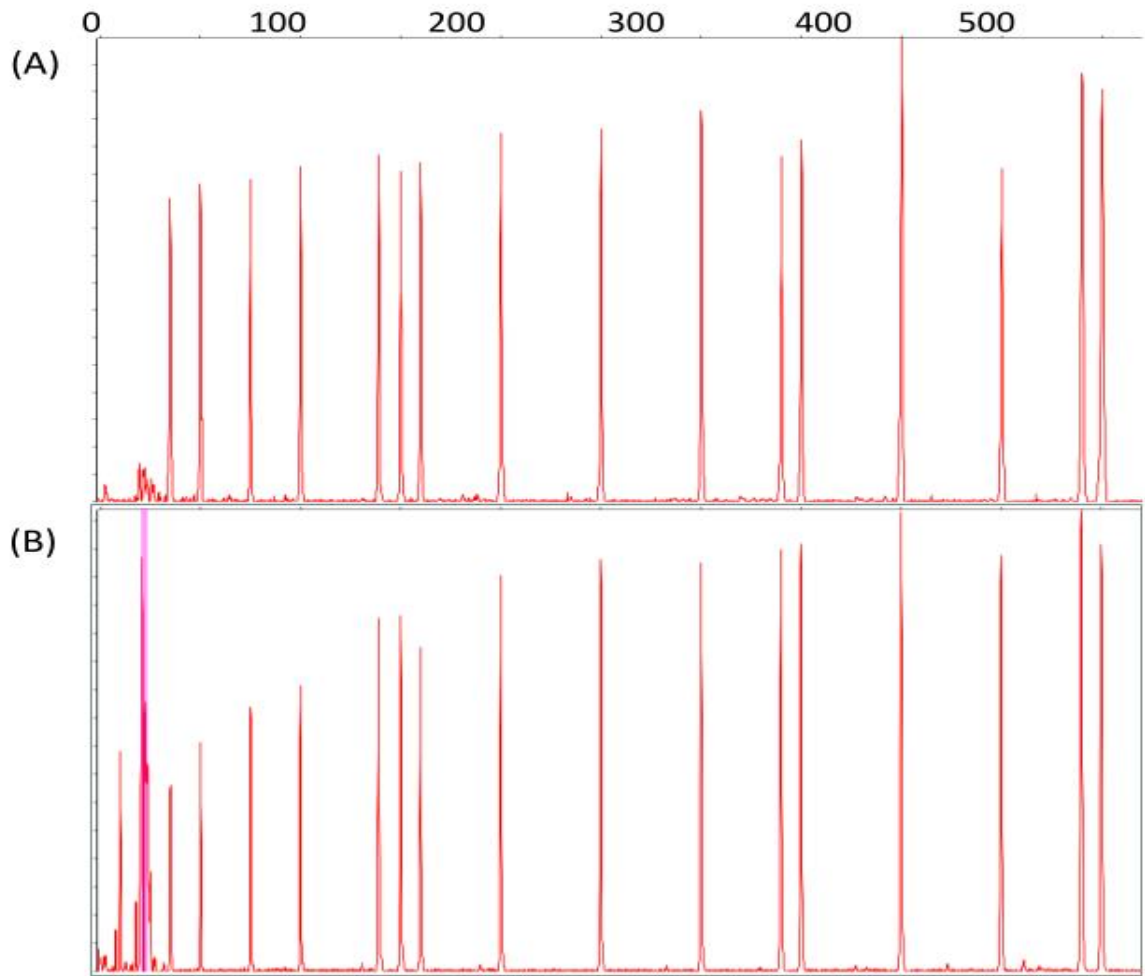


Figure 1 (A) 500-Red Fragment Size Standard and (B) Applied Biosystems® GeneScan™ 500 ROX™ Internal Lane Standard resolved on an Applied Biosystems® 3100 Genetic Analyze