Accelerate DNA analysis with the Agilent 4200 TapeStation system

Fast and easy DNA quality control
The Agilent 4200 TapeStation system offers automated sample processing of 1 to 96 samples for quick and reliable RNA and DNA sample quality control.

The D1000 ScreenTape has been developed for the separation and analysis of DNA fragments from 35 bp to 1,000 bp. Depending on the sensitivity requirements, it is possible to choose between the D1000 ScreenTape and the High Sensitivity D1000 ScreenTape application.

DNA sample quality control has never been so easy – simply load the 4200 TapeStation with the appropriate D1000 ScreenTape device, loading tips, and samples in tube strips or 96-well plates, and you will be reviewing results in less than 1 minute per sample.

Key Features
Excellent accuracy and precision
Reliably analyze size and quantity of PCR fragments, fragmented DNA, and DNA libraries.

High sensitivity
Qualify your precious DNA sample down to a concentration of 5 pg/µL per fragment.

Easy to use
Simplify your sample quality control with ready-to-use ScreenTape consumables and reagents.

Scalable throughput
Analyze any number of samples at constant price per sample.

Fast results
Obtain results in as little as one minute per sample independent of total sample number.

Zero carryover
Avoid sample carry over by running each DNA sample in a separate lane of the ScreenTape device.

Minimal sample consumption
Use not more than 2 µL of your precious samples per run – even for high sensitivity analysis.

Complete solution for DNA analysis
- Agilent 4200 TapeStation system (G2991AA)
- Agilent D1000 ScreenTape Assay
  * D1000 ScreenTape (5067-5582)
  * D1000 Reagents (5067-5583)
  * Optional: D1000 Ladder (5067-5586) and D1000 Sample Buffer (5067-5602)
- Agilent High Sensitivity D1000 ScreenTape Assay
  * High Sensitivity D1000 ScreenTape (5067-5584)
  * High Sensitivity D1000 Reagents (5067-5585)
  * Optional: High Sensitivity D1000 Ladder (5067-5587) and High Sensitivity Sample Buffer (5067-5603)
DNA analysis during the NGS workflow

The Agilent 4200 TapeStation system can be used at several steps of the Next Generation Sequencing (NGS) workflow such as the shearing of genomic DNA (gDNA) and the library amplification, to ensure sample quality. The figure shows the analysis of a sheared gDNA sample of the SureSelect target enrichment workflow with the D1000 ScreenTape assay.

Agilent D1000 ScreenTape applications

DNA analysis during the NGS workflow

The Agilent 4200 TapeStation system can be used at several steps of the Next Generation Sequencing (NGS) workflow such as the shearing of genomic DNA (gDNA) and the library amplification, to ensure sample quality. The figure shows the analysis of a sheared gDNA sample of the SureSelect target enrichment workflow with the D1000 ScreenTape assay.

Contact Us:
US/Canada
Phone: Toll-free 1-800 227 9770
Email: agilent_inquiries@agilent.com

Europe
Email: info_agilent@agilent.com

Asia Pacific
Email: adinquiry_aplsca@agilent.com

www.agilent.com/genomics/tapestation

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