



Agilent D1000 ScreenTape and High Sensitivity D1000 ScreenTape

Accelerate DNA analysis with the Agilent 2200 TapeStation system

Automated DNA electrophoresis with scalable throughput

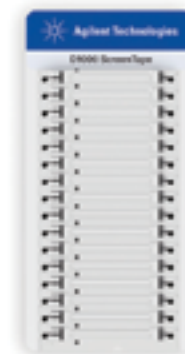
The Agilent 2200 TapeStation system provides automated, fast and reliable RNA, DNA and protein electrophoresis.

The D1000 ScreenTape has been developed for the separation and analysis of DNA fragments from 35 bp to 1000 bp. Depending on the sensitivity requirements, it is possible to choose between the D1000 ScreenTape and the High Sensitivity D1000 ScreenTape.

DNA sample analysis has never been so easy – simply load the 2200 TapeStation with the appropriate D1000 ScreenTape, loading tips, and samples in tube strips or 96-well plates, and you will be reviewing results in 1 minute per sample.

Complete solution for DNA analysis

- Agilent 2200 TapeStation system (G2964AA) or (G2965AA)
- D1000 ScreenTape (5067-5582) or High Sensitivity D1000 ScreenTape (5067-5584)
- D1000 Reagents (5067-5583) or High Sensitivity D1000 Reagents (5067-5585)
- Optional: D1000 Ladder (5067-5586) or Agilent High Sensitivity D1000 Ladder (5067-5587)



Key Features

Superior accuracy and precision

Accurate and reliable sizing and quantitation of PCR fragments, fragmented DNA, and DNA libraries.

Excellent sensitivity

Qualify your precious DNA sample down to a concentration of 5 pg/ μ L per fragment.

Low sample need

Use no more than 2 μ L of your precious samples per run – even for high sensitivity analysis.

Zero carryover

In addition to individual loading tips for each sample – the ScreenTape runs each DNA sample in a separate lane.

Scalable throughput

Individual channels facilitate variable throughput at a constant cost per sample.

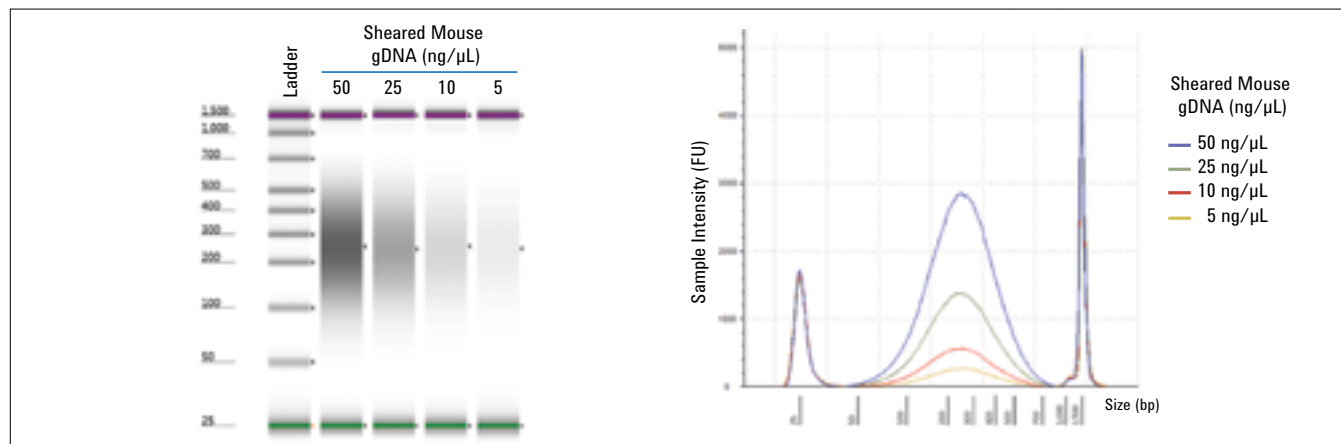
Fast results

Obtain results in approximately one minute per sample, even for 96 samples.



Agilent Technologies

Agilent D1000 ScreenTape applications



Analytical Specifications	Agilent D1000 ScreenTape	Agilent High Sensitivity D1000 ScreenTape
Sizing range	35 – 1,000 bp	35 – 1,000 bp
Typical resolution	35 – 300 bp: 15 % 300 – 1,000 bp: 10 %	35 – 300 bp: 15 % 300 – 1,000 bp: 10 %
Sensitivity ¹	0.1 ng/μL	5 pg/μL
Sizing precision	5 % CV	5 % CV
Sizing accuracy ²	± 10 %	± 10 %
Quantitative precision	0.1 – 1 ng/μL: 15 % CV 1 – 50 ng/μL: 10 % CV	15 % CV
Quantitative accuracy ³	± 20 %	± 20 %
Quantitative range	0.1 – 50 ng/μL	10 – 1,000 pg/μL
Maximum sample buffer strength	20 mM KCl 60 mM Phosphate Buffer 60 mM Guanidine-HCl 240 mM NaCl 60 mM Acetate	7 mM KCL 20 mM Phosphate Buffer 20 mM Guanidine-HCl 80 mM NaCl 20 mM Acetate

¹ Signal/noise ratio > 3 for a single peak

² Accuracy for software ladder: ± 20 %

³ Measured against 2100 Bioanalyzer system

Physical Specifications	Agilent D1000 ScreenTape	Agilent High Sensitivity D1000 ScreenTape
Analysis time	16 samples < 20 min 96 samples ~ 100 min	16 samples < 20 min 96 samples ~ 100 min
Samples per consumable	16	16
Sample volume required	1 μL	2 μL
Kit stability	4 months	4 months
Kit size	112 samples	112 samples

DNA analysis during the NGS workflow

The Agilent 2200 TapeStation system can be used at several steps of the Next Generation Sequencing (NGS) workflow such as shearing of genomic DNA and library amplification, to ensure DNA library and sample quality. The figure shows the analysis of a post shear sample of the SureSelect target enrichment workflow with the D1000 ScreenTape.

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