

Agilent 4200 TapeStation System

A complete solution for end-to-end electrophoretic quality control of DNA and RNA samples



Automated sample processing for quick and reliable sample QC

The Agilent 4200 TapeStation system provides end-to-end sample quality control (QC) within any next-generation sequencing (NGS), microarray (including array CGH), or qPCR workflow. The system offers walk-away operation with fully automated sample processing.

The 4200 TapeStation software comprises functionality for instrument control and data analysis. It is intuitive and presents the automatically analyzed data as a familiar gel image and electropherogram for each sample.

For the complete portfolio of DNA and RNA assays, any sample number from 1 up to 96 samples can be analyzed at constant cost per sample. The ready-to-use ScreenTape technology enables ultimate flexibility for switching between assays as well as sample preparation. The system handles your samples in 2 x 8-tube strips or 96-well microtiter plates and enables you to review reliable results within 1 to 2 minutes per sample, or less than 90 minutes for 96 samples.

With sensitive detection and zero carryover, you get the utmost confidence in your results, ensuring your downstream workflow is a complete success.

Key features

Ease-of-use

Ready-to-use ScreenTape consumables ensure operational simplicity.

Automated

Walk-away operation with fully automated sample processing.

Scalable

Individual sample lanes facilitate variable throughput from 1 to 96 samples at constant cost per sample.

Flexible

Ready-to-use ScreenTape technology enables easy switching between DNA and RNA assays. Sample can be provided in either 16-tube strips or 96-well microtiter plates.

Fast

Simplify your workflow—no system setup procedures are required—and get reliable results in as little as 1 to 2 minutes per sample, even for 96 samples.

Excellent reproducibility

Achieve user independent results through minimal manual intervention.

Low sample need

Requires only 1 to 2 μ L of your precious samples per run—even for high sensitivity analysis.

Zero carryover

In addition to individual filtered loading tips, each sample is analyzed in a discrete ScreenTape lane.

Low cost of ownership

Easy self-maintenance tasks guarantee lowest cost of ownership and maximize instrument uptime and productivity.

GLP/GMP compliance

Receive audit-ready documentation with the optional compliance services like installation qualification (IQ) and operational qualification (OQ) service.

Physical specifications

Specifications 4200 TapeStation Instrument	
Weight	24.8 kg (54.7 lbs)
Dimensions (w x d x h)	435 x 510 x 445 mm (17.1 x 20.0 x 17.5 inches)
Line voltage	100-240 V AC
Line frequency	50-60 Hz
Power consumption	50 VA

Order information

4200 TapeStation System		Part number
4200 TapeStation instrument	Includes 4200 TapeStation instrument, laptop with TapeStation software, vortexer, accessories, consumables, and user information.	G2991BA
TapeStation Consumables		Part number
Loading tips	pack of 112 tips	5067-5598
	10 packs of 112 tips	5067-5599
Sample tube strips	Optical tube, 8x strip, box of 120	401428
	Optical caps, 8x strip, box of 120	401425
96-well sample plates	Pack of 25 plates	5042-8502
96-well plate foil seal	Pack of 100 foils	5067-5154
TapeStation Test Tape	One tape	5067-5601
TapeStation Accessories and Spare Parts		Part number
ScreenTape Rack	One rack	G2991-40007
Tip Waste Bucket	One bucket	G2992-40046
Tube Strip Holder	One holder	G2992-40042
USB male-A – male-B	One cable	5188-8047
Needle Change Cartridge	One cartridge	5067-5783
32-Pin Electrode Cartridge	One cartridge	5067-5786
Upper Tapenest Cover	One cover	G2992-68003
Lower Tapenest Cover	One cover	G2992-40014

ScreenTape technology for confident DNA and RNA analysis

DNA analysis

- DNA sizing and quantification in the range 35 bp to 60 kbp and 5 pg/μL to 100 ng/μL
- DNA integrity number (DIN) provided by the Genomic DNA ScreenTape assays for unambiguous DNA integrity assessment
- QC of cell-free DNA with qualification based on the %cfDNA quality metric

RNA analysis

- RNA sizing and quantification in the range 100 to 6,000 nt and 100 pg/μL to 500 ng/μL
- RNA integrity number equivalent (RIN[®]) feature for unambiguous RNA integrity assessment



TapeStation ScreenTape assays

ScreenTape Assays		Part number
D1000	D1000 ScreenTape	5067-5582
	D1000 reagents	5067-5583
	D1000 ladder	5067-5586
	D1000 sample buffer	5067-5602
High Sensitivity D1000	High Sensitivity D1000 ScreenTape	5067-5584
	High Sensitivity D1000 reagents	5067-5585
	High Sensitivity D1000 ladder	5067-5587
	High Sensitivity D1000 sample buffer	5067-5603
D5000	D5000 ScreenTape	5067-5588
	D5000 reagents	5067-5589
	D5000 ladder	5067-5590
High Sensitivity D5000	High Sensitivity D5000 ScreenTape	5067-5592
	High Sensitivity D5000 reagents	5067-5593
	High Sensitivity D5000 ladder	5067-5594
Genomic DNA	Genomic DNA ScreenTape	5067-5365
	Genomic DNA reagents	5067-5366
High Sensitivity Genomic DNA	High Sensitivity Genomic DNA ScreenTape	5067-5634
	High Sensitivity Genomic DNA reagents	5067-5635
Cell-free DNA	Cell-free DNA ScreenTape	5067-5630
	Cell-free DNA reagents	5067-5631
	Cell-free DNA ladder	5067-5632
	Cell-free DNA sample buffer	5067-5633
RNA	RNA ScreenTape	5067-5576
	RNA sample buffer	5067-5577
	RNA ladder	5067-5578
High Sensitivity RNA	High Sensitivity RNA ScreenTape	5067-5579
	High Sensitivity RNA sample buffer	5067-5580
	High Sensitivity RNA ladder	5067-5581

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