

Agilent 4150 TapeStation System

Easy and economical quality control of
DNA and RNA samples



Automated Sample Processing With Operational Simplicity

The 4150 TapeStation system makes sample quality control (QC) within next-generation sequencing (NGS) and biobank workflows easier and more economical than ever. The affordable, entry-level system is ideal for labs handling smaller number of samples. Up to 16 samples can be processed per run.

The 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 to 16 samples can be analyzed at constant cost per sample. The ready-to-use ScreenTape technology enables ultimate flexibility for switching between assays. The system handles your samples in two 8-tube strips and allows you to review reliable results within 1 to 2 minutes per sample, or less than 20 minutes for 16 samples.

And, 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 consumables ensure operational simplicity
- **Economical:** Constant cost per sample in combination with low cost of ownership.
- **Flexible:** Large DNA and RNA ScreenTape assay portfolio. Samples are provided in two 8-tube strips.
- **Fast:** Reliable, reproducible results within 1 to 2 minutes per sample and less than 20 minutes for 16 samples.
- **Low sample need:** Requires only 1 to 2 µL of your precious samples per run—even for high sensitivity analysis.
- **Small footprint:** Save valuable bench space in your lab with a compact system offering a complete sample QC solution.
- **Seamless upgrade:** Easy upgrade to 4200 TapeStation system is guaranteed by complete application and software compatibility.

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

Specifications

4150 TapeStation Instrument	
Weight	17.8 kg (39.2lb)
Dimensions (w × d × h)	254 x 510 x 415 mm (10.0 x 20.1 x 16.3 inches)
Line voltage	100 – 240 V AC
Line frequency	50 – 60 Hz
Power consumption	50 VA

Ordering information

4150 TapeStation System		Part Number
4150 TapeStation instrument	Includes 4150 TapeStation instrument, with TapeStation software, vortexer, accessories, consumables, and user information.	G2992AA
TapeStation software laptop bundle	Pre-installed TapeStation software	G2999AA
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 cap, 8x strip, box of 120	401425
TapeStation Test Tape	One tape	5067-5601
TapeStation Accessories and Spare Parts		Part Number
Needle Change Cartridge	1 cartridge	5067-5783
32-Pin Electrode Cartridge	1 cartridge (for 4150 TapeStation instrument)	5067-5786
Tip Waste Bucket	1 bucket	G2992-40046
Tube Strip Holder	1 holder	G2992-40042
USB cable	1 cable	5188-8047
ScreenTape Assays		Part Number
D1000	D1000 ScreenTape	5067-5582
	D1000 reagents	5067-5583
High Sensitivity D1000	High Sensitivity D1000 ScreenTape	5067-5584
	High Sensitivity D1000 reagents	5067-5585
D5000	D5000 ScreenTape	5067-5588
	D5000 reagents	5067-5589
High Sensitivity D5000	High Sensitivity D5000 ScreenTape	5067-5592
	High Sensitivity D5000 reagents	5067-5593
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
RNA	RNA ScreenTape	5067-5576
	RNA sample buffer	5067-5577
High Sensitivity RNA	High Sensitivity RNA ScreenTape	5067-5579
	High Sensitivity RNA sample buffer	5067-5580

www.agilent.com/genomics/tapestation

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