

## 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  $\mu\text{L}$  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/ $\mu\text{L}$  to 100 ng/ $\mu\text{L}$
- 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/ $\mu\text{L}$  to 500 ng/ $\mu\text{L}$
- RNA integrity number equivalent (RIN<sup>e</sup>) feature for unambiguous RNA integrity assessment

## Specifications

| 4150 TapeStation Instrument |   |
|-----------------------------|---|
| Weight                      | 17.8 kg (39.2lb)                                  |
| Dimensions (w x d x h)      | 254 x 510 x 415 mm<br>(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](http://www.agilent.com/genomics/tapestation)

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