Agilent 2200 TapeStation System

ACCELERATE YOUR SAMPLE QC WITH CONFIDENCE

The Measure of Confidence

Agilent Technologies
ACCELERATE YOUR SAMPLE QC

Confidence means a QC workflow that delivers reproducible, user-independent results – when you need them

Developed by the company behind the industry-leading 2100 Bioanalyzer, the new Agilent 2200 TapeStation system offers scalable throughput and rapid results, making it an ideal solution for quality control of biological samples in next-generation sequencing (NGS), microrarray and qPCR workflows, as well as in protein purification and antibody production.

The 2200 TapeStation system uses credit card-sized, disposable Agilent ScreenTape that is available for DNA, RNA and protein applications. Sample analysis has never been so easy – simply load the 2200 TapeStation instrument with ScreenTape, loading tips, and your samples in 16 tubes or 96-well microtiter plates – and you will be reviewing results in approximately 1 minute per sample!
The Agilent 2200 TapeStation system makes sample QC as easy as 1–2–3!

1. Select ScreenTape
2. Place samples in TapeStation
3. Review results

Benefit from the scalability, speed and simplicity of the Agilent 2200 TapeStation system:

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

**Excellent reproducibility**
Achieve user-independent results through minimal manual intervention and pre-packaged reagents.

**Gold standard for RNA QC**
Rely on the market-leading RNA quality standard (RIN) by using the Agilent-developed RIN°.

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

**Low sample need**
Use no more than 2 μL of your precious samples per run — even for high sensitivity analysis.

**Zero carryover**
In addition to individual loading tips for each sample, the ScreenTape analyses each sample in a separate lane.

**Easy to use**
Simplify your workflow with ready-to-use ScreenTape consumables.

**Highest flexibility**
Switch with ease between DNA, RNA and Protein ScreenTape for greater flexibility.

**Protect sample performance**
Avoid sample evaporation by covering your 96-well microtiter plates with a foil seal.

**Absolute robustness**
The system does not contain fragile or other error-prone features and procedures.

**Small footprint**
Save valuable benchspace in your lab as there is no need for gel tanks, buffer bottles or documentation systems.

To learn more about the Agilent 2200 TapeStation system, visit www.agilent.com/genomics/tapestation
SAMPLE QC OF DNA, RNA AND PROTEINS

A portfolio of ScreenTape for a range of applications

The credit card-sized, disposable ScreenTape carries multiple separation lanes for separating DNA, RNA and protein samples. Each ScreenTape has 16 lanes so that each sample is analyzed in an individual lane. Partially used ScreenTape can be used for analysis at a later point in time.

Typical ScreenTape applications

<table>
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<tr>
<th>RNA ScreenTape</th>
<th>DNA ScreenTape</th>
<th>Protein ScreenTape</th>
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<td>- Gene expression profiling</td>
<td>- Sample QC in NGS workflow</td>
<td>- Antibody stability testing and QC</td>
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<td>- RNA QC in multiple workflows such as microarrays, next generation sequencing, quantitative RT-PCR</td>
<td>- QC of cDNA libraries</td>
<td>- At-line monitoring of protein expression</td>
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Select from the ScreenTape portfolio for DNA, RNA or protein analysis based on your application and sensitivity requirements.
AUTOMATED SAMPLE LOADING AND ANALYSIS

A complete solution for your sample QC

Agilent provides a complete solution for your QC workflow. Choose from two instrument configurations – DNA, RNA and protein analysis or DNA and RNA analysis only. Each configuration includes:

- **Agilent 2200 TapeStation**
  - DNA, RNA and protein analysis
  - DNA and RNA analysis only

- **Accessories**
  Sample blocks for tube strips or 96-well microtiter plates, tip holders, power supply, USB cable

- **Laptop**
  Pre-installed Agilent 2200 TapeStation software

- **Consumables**
  96-well microtiter plates, tube strips, loading tips, foil seals

- **User information**
  Quick Guides and User Guide CD

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Easy to use

The integrated barcode scanner automatically identifies which ScreenTape you have loaded, facilitating transfer of tape-specific parameters to the 2200 TapeStation software without any manual intervention. Both sample and ladder are loaded automatically.

Excellent reproducibility

The tape holder aligns the ScreenTape with the built-in electrodes and imaging system.

Scalable throughput

The 2200 TapeStation instrument distinguishes automatically between tube strips and 96-well microtiter plates.

Zero carryover

The liquid handler uses a fresh pipette filtered tip to load each individual sample onto the ScreenTape, eliminating contamination and carryover.

To learn more about the Agilent 2200 TapeStation system, visit www.agilent.com/genomics/tapestation
STREAMLINED DATA ANALYSIS AND REPORTING

The 2200 TapeStation software is simple and intuitive, streamlining your data analysis and reporting, and making sample QC quick and easy.

You can display your results as an electropherogram, as a familiar gel image or in tabular format for effortless sample comparison. Depending on your application, the software automatically determines size, quantity, purity, RIN® or ribosomal ratios, saving you time and reducing errors. Reports can easily be generated and saved in PDF format or edited in Word and Excel.

RNA application

DNA application

Protein application
The system is easy to set up with negligible sample preparation and an intuitive software interface allowing us to quickly process large numbers of (in our case) RNA samples for downstream processes.”

- DR ANDREW J. CASSIDY, GENETICS CORE SERVICES MANAGER, NINEWELLS HOSPITAL AND MEDICAL SCHOOL, DUNDEE, UK