



# COMPLETE SUCCESS BEGINS WITH SAMPLE QUALITY CONTROL

The Agilent 4200 TapeStation system offers automated sample processing and scalable throughput. With the ready-to-use ScreenTape technology it is a fast and flexible solution for true end-to-end sample quality control (QC) for the full range of sizing applications for DNA and RNA. And with sensitive detection and zero carryover, you get the utmost confidence in your results, ensuring your downstream workflow is a complete success.



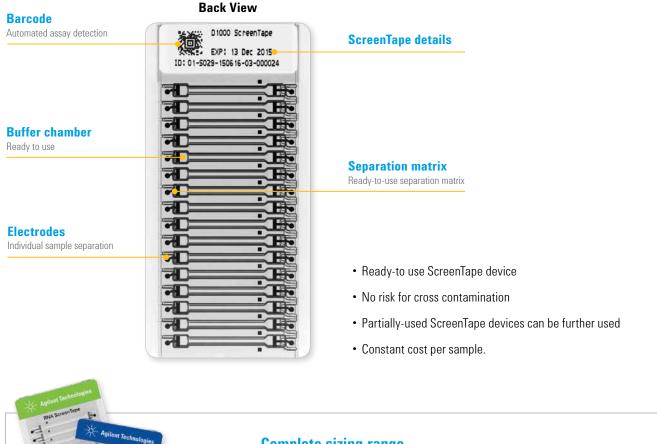
## A complete solution for your sample QC

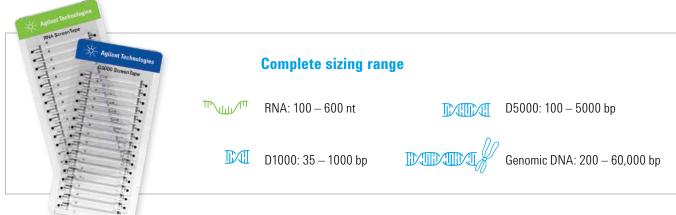
- Easy-to-install Agilent 4200 TapeStation instrument
- Laptop with pre-installed Agilent 4200 TapeStation software
- Accessories and consumables for all your QC applications
- · User information package with Quick Guides and User Guide USB flash drive



## **COMPLETE SCREENTAPE PORTFOLIO**

The credit card-sized, disposable ready-to-use ScreenTape device carries multiple lanes for separating DNA and RNA samples. Each ScreenTape has 16 lanes so that each sample is analyzed in an individual lane without any risk for cross contamination. Partially-used ScreenTape devices can be further used for analysis providing constant cost per sample.







## **Complete sensitivity range**

Select from a complete ScreenTape portfolio for DNA or RNA analysis based on your application and sensitivity requirements.



#### **RNA**

1 µL of sample  $25 - 500 \, ng/\mu L$ 

## TIVALINA

Sizing Range: 100 - 6000 nt

RNA Integrity Number equivalent (RINe)



## **High Sensitivity RNA**

2 µL of sample  $500 - 10,000 \text{ pg/}\mu\text{L}$ 

## 

## Sizing Range:

100 - 6000 nt

RNA Integrity Number equivalent (RINe)



## D1000

1 µL of sample  $0.1 - 50 \, \text{ng/}\mu\text{L}$ 



Sizing Range: 35 - 1000 bp

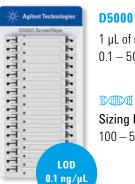


## **High Sensitivity** D1000

2 µL of sample  $10 - 1000 \, pg/\mu L$ 

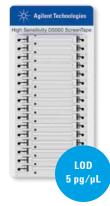
Sizing Range:

35 - 1000 bp



1 µL of sample  $0.1 - 50 \, ng/\mu L$ 

Sizing Range: 100 - 5000 bp



## **High Sensitivity D5000**

2 µL of sample  $10 - 1000 \, pg/\mu L$ 

Sizing Range:  $100 - 5000 \, \mathrm{bp}$ 



#### **Genomic DNA**

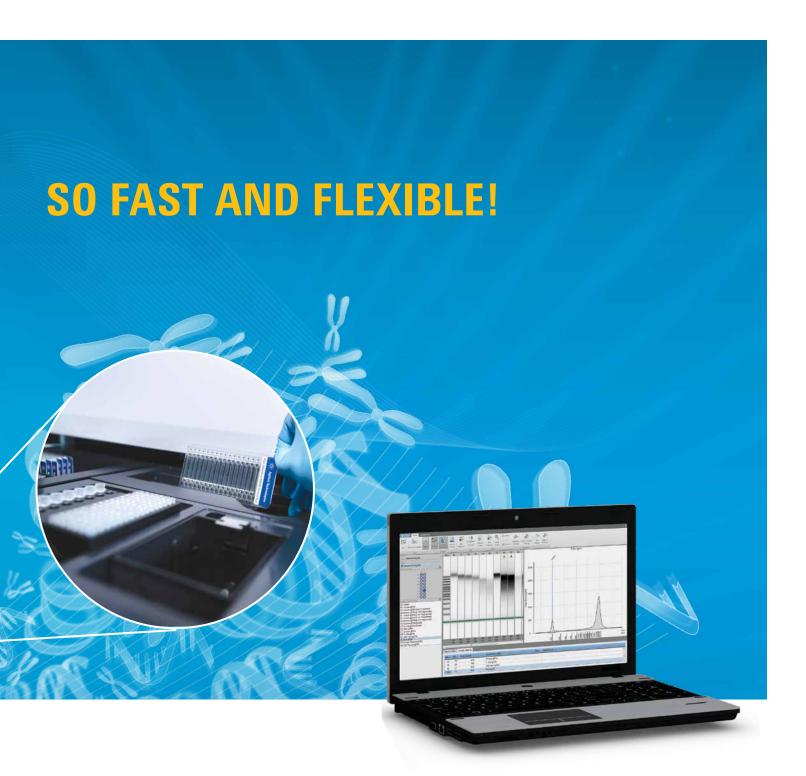
 $1 \, \mu L$  of sample  $10 - 100 \text{ ng/}\mu\text{L}$ 



Sizing Range:  $200 - 60.000 \, \mathrm{bp}$ 

**DNA** Integrity Number (DIN)





## STEP 2

Place samples and ScreenTape devices in 4200 TapeStation instrument

## STEP 3

Press start and review results in 4200 TapeStation Software

## **COMPLETE SOFTWARE PACKAGE**

## Streamline your data analysis and reporting

The 4200 TapeStation software is simple and intuitive, streamlining instrument control as well as data analysis and reporting.

## **4200 TapeStation Controller Software**

### **Required consumable**

Software displays the required consumables based on number of samples for analysis

#### **Intuitive sample selection**

Full flexibility for sample selection independent on sample location

## **System status & Observations**

Status, warnings and errors are displayed in the task bar



## **Automatic assay selection**

Barcode recognizes assay type and available number of ScreenTape lanes for analysis

#### Sample name import/export

CSV file import and export function for sample name assignment

## **TapeStation Analysis Software**

#### **Analysis functions Error reporting** Functions are navigated through Analysis issues are flagged on the a context-sensitive ribbon gel image or in the sample table **Navigation pane** Navigate through experiments and individual lanes. Lanes can be selected **Observations** in any order from the Plate Selector Warnings and errors are displayed in the र्श न न न न न न न न न न न न न न observations column of the result table **Result presentation** Customizable views of gel image, eletropherogram and data table

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 and RNA or DNA Integrity Numbers (RIN°, DIN), saving you time and reducing errors. Reports can easily be generated and saved in PDF format, or exported for editing in Word or Excel.

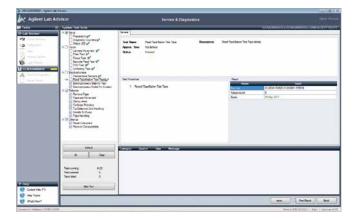


# ORT

## Maximize uptime through diagnostic tools

Achieve highest productivity and lowest total cost of ownership through advanced system diagnostics. Using a dedicated TapeStation TestTape device, you can run an instrument selftest through the Agilent Lab Advisor software.





Agilent Lab Advisor Software offers a comprehensive toolset for functionality tests and maintenance of your instrument

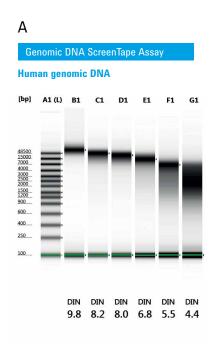
## Get peace of mind through instrument and application support

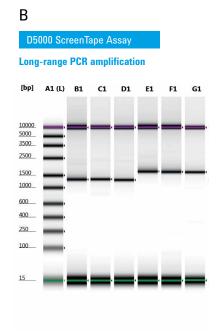
Agilent offers an application-related startup service to familiarize you with the instrument and software, as well as an application of your choice. This service is delivered onsite and gets you running real samples — fast. Choose from additional service options to suit your lab's specific service-level needs.

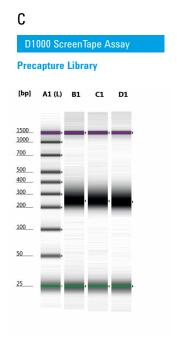
All system components carry a one-year factory warranty and the instrument is covered by the premium repair service. The premium warranty service can be extended by one, two or five years. Warranty extensions include an annual system preventive maintenance service.

## **COMPLETE DNA APPLICATIONS**

The Agilent DNA ScreenTape assays can be used at several quality control points in the Next Generation Sequencing (NGS) workflow: genomic DNA QC including the DNA Integrity Number (DIN), shearing of genomic DNA, library amplification, and postcapture amplified library. Additional applications include genotyping, multiplex PCR fragment analysis as well as QC of quantitative PCR products.



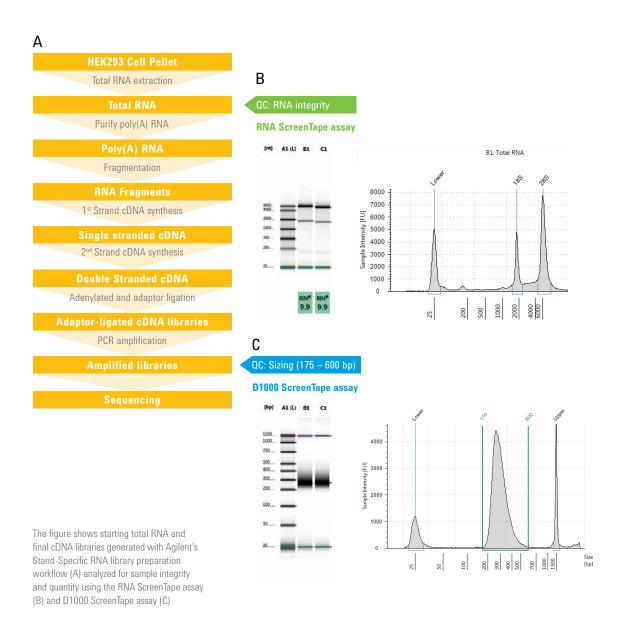




The figure shows genomic DNA smears at different degradation stages (A), long range PCR fragments (B) and precapture library preparation (C) analyzed with Genomic DNA ScreenTape assay, D5000 ScreenTape assay and D1000 ScreenTape assay, respectively

## **COMPLETE RNA APPLICATIONS**

The Agilent RNA ScreenTape assays are used for the determination of quality and quantity of total RNA samples from eukaryote or prokaryote origin. The RNA Integrity Number equivalent (RIN°) provides a user independent integrity score for total RNA. The optional ladder can also provide sizing information.



Learn more:

www.agilent.com/genomics/tapestation

Buy online:

www.agilent.com/chem/store

Find an Agilent customer center in your country:

www.agilent.com/chem/contactus

U.S. and Canada

1-800-227-9770 agilent\_inquiries@agilent.com

Europe

info\_agilent@agilent.com

Asia Pacific

inquiry\_lsca@agilent.com

This information is subject to change without notice.

© Agilent Technologies, Inc. 2015 Published in the USA, August 15, 2015 5991-5938EN

