



ScreenTape Consumables and Reagents for the Agilent 4200 TapeStation System



Agilent offers a variety of ScreenTape consumables and reagents for the Agilent 4200 TapeStation system:

DNA and High Sensitivity DNA ScreenTape

For the separation and analysis of DNA fragments and libraries up to 5,000 base pairs. Ideal for sample quality control (QC) in Next Generation Sequencing (NGS) workflows.



Genomic DNA ScreenTape

For the separation and analysis of DNA samples up to 60,000 base pairs. It provides an automated numerical assessment of genomic DNA quality, the DNA integrity number (DIN), and is therefore the ideal QC tool for NGS and array comparative genomic hybridization (aCGH) workflows.

RNA and High Sensitivity RNA ScreenTape

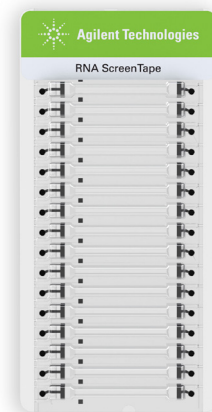
For the analysis of total RNA samples from eukaryotic or prokaryotic origin providing quality, quantity and sizing information. The RNA integrity number equivalent (RIN^e) delivers an instant and objective evaluation of eukaryotic and prokaryotic total RNA degradation.



Agilent 4200 TapeStation RNA Assays

RNA Consumables and Reagents

Part Number	Description	Quantity
5067-5576	RNA ScreenTape For analysis of total RNA down to a sensitivity of 5 ng/μL. Includes 7 ScreenTape devices.	For 112 samples
5067-5577	RNA ScreenTape Sample Buffer For analysis of total RNA down to a sensitivity of 5 ng/μL. Includes 600 μL sample buffer. Order with 5067-5576.	For 112 samples
5067-5578	RNA ScreenTape Ladder For analysis of total RNA down to a sensitivity of 5 ng/μL. Includes 10 μL ladder. Order with 5067-5576 and 5067-5577.	
5067-5579	High Sensitivity RNA ScreenTape For high sensitivity analysis of total RNA down to 100 pg/μL. Includes 7 ScreenTape devices.	For 112 samples
5067-5580	High Sensitivity RNA ScreenTape Sample Buffer For high sensitivity analysis of total RNA down to a sensitivity of 100 pg/μL. Includes 250 μL sample buffer. Order with 5067-5579.	For 112 samples
5067-5581	High Sensitivity RNA ScreenTape Ladder For high sensitivity analysis of total RNA down to a sensitivity of 100 pg/μL. Includes 10 μL ladder. Order with 5067-5579 and 5067-5580.	



RNA Specifications

Analytical Specifications	RNA ScreenTape	High Sensitivity RNA ScreenTape
Quality score	RIN ^e	RIN ^e
Sensitivity¹	5 ng/μL	100 pg/μL
RIN^e functional range	25 – 500 ng/μL	1,000 – 25,000 pg/μL
Quantitative range	25 – 500 ng/μL	500 – 10,000 pg/μL
Quantitative precision	10% CV	15% CV
Quantitative accuracy²	±20%	±30%
Analysis tape	Eukaryotic or Prokaryotic total RNA QC	Eukaryotic or Prokaryotic total RNA QC
Maximum sample buffer strength	200 mM Tris, 20 mM EDTA, or 50 mM NaCl	10 mM Tris, 1 mM EDTA

Physical Specifications		
Analysis time	16 samples < 20 min 96 samples < 95 min	16 samples < 35 min 96 samples < 180 min
Samples per consumable	16	16
Sample volume required	1 μL	2 μL
Kit stability	4 months	4 months
Kit size	112 samples	112 samples

For total RNA samples.

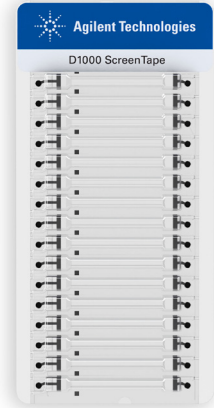
¹Signal/noise >3 in water and TE.

²Measured against 2200 TapeStation system.

Agilent 4200 TapeStation DNA Assays

DNA Consumables and Reagents

Part Number	Description	Quantity
D1000 ScreenTape Assay – 35 bp to 1,000 bp		
5067-5582	D1000 ScreenTape For the analysis of DNA from 35 to 1,000 bp. Includes 7 ScreenTape devices.	For 112 samples
5067-5583	D1000 Reagents For the analysis of DNA from 35 to 1,000 bp. Includes ladder and sample buffer. Order with 5067-5582.	For 112 samples
5067-5586	D1000 Ladder For the analysis of DNA from 35 to 1,000 bp. Includes 10 µL ladder.	
5067-5602	D1000 Sample Buffer For the analysis of DNA from 35 to 1,000 bp. Includes 400 µL sample buffer.	
5067-5584	High Sensitivity D1000 ScreenTape For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes 7 ScreenTape devices.	For 112 samples
5067-5585	High Sensitivity D1000 Reagents For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes ladder and sample buffer. Order with 5067-5584.	For 112 samples
5067-5587	High Sensitivity D1000 Ladder For the analysis of DNA from 35 to 1,000 bp. Includes 20 µL ladder.	
5067-5603	High Sensitivity D1000 Sample Buffer For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes 300 µL sample buffer.	
D5000 ScreenTape Assay – 100 bp to 5,000 bp		
5067-5588	D5000 ScreenTape For the analysis of DNA from 100 to 5,000 bp. Includes 7 ScreenTape devices.	For 105 samples
5067-5589	D5000 Reagents For the analysis of DNA from 100 to 5,000 bp. Includes ladder and samples buffer. Order with 5067-5588.	For 105 samples
5067-5590	D5000 Ladder For the analysis of DNA from 100 to 5,000 bp. Includes 10 µL ladder.	
5067-5592	High Sensitivity D5000 ScreenTape For the high sensitivity analysis of DNA from 100 to 5,000 bp. Includes 7 ScreenTape devices.	For 105 samples
5067-5593	High Sensitivity D5000 Reagents For the high sensitivity analysis of DNA from 100 to 5,000 bp. Includes sample buffer and ladder. Order with 5067-5592.	For 105 samples
5067-5594	High Sensitivity D5000 Ladder For the high sensitivity analysis of DNA from 100 to 5,000 bp. Includes 20 µL ladder.	
Genomic DNA ScreenTape Assay – 200 bp to >60,000 bp		
5067-5365	Genomic DNA ScreenTape For the analysis of genomic DNA from 200 to > 60,000 bp. Includes 7 ScreenTape devices.	For 105 samples
5067-5366	Genomic DNA Reagents For the analysis of genomic DNA from 200 to > 60,000 bp. Includes ladder and sample buffer. Order with 5067-5365.	For 105 samples



DNA Specifications

Analytical Specifications	D1000 ScreenTape	High Sensitivity D1000 ScreenTape	D5000 ScreenTape	High Sensitivity D5000 ScreenTape	Genomic DNA Specifications
Sizing range	35 – 1,000 bp	35 – 1,000 bp	100 – 5,000 bp	100 – 5,000 bp	200 to > 60,000 bp
Typical resolution	35 – 300 bp: 15% 300 – 1,000 bp: 10%	35 – 300 bp: 15% 300 – 1,000 bp: 10%	400 – 5,000 bp: 15%	400 – 5,000 bp: 15%	-
Sensitivity¹	0.1 ng/μL	5 pg/μL	0.1 ng/μL	5 pg/μL	0.5 ng/μL
Sizing precision²	5% CV	5% CV	5% CV	10% CV	200 – 15,000 bp: 15% CV
Sizing accuracy²	±10% ³	±10% ³	±10%	±15%	200 – 15,000 bp: ±15%
Quantification precision	0.1 – 1 ng/μL 15% CV 1 – 50 ng/μL 10% CV	15% CV	0.1 – 1 ng/μL: 15% CV 1 – 50 ng/μL: 10% CV	15% CV	15% CV ⁵
Quantitative accuracy⁴	±20%	±20%	±20%	±25%	±20% ⁵
Quantification range	0.1 – 50 ng/μL	10 – 1,000 pg/μL	0.1 – 50 ng/μL	10 – 1,000 pg/μL	10 – 100 ng/μL
Maximum sample buffer strength	20 mM KCl 60 mM Phosphate Buffer 60 mM Guanidine-HCl 240 mM NaCl 60 mM Acetate	7 mM KCl 20 mM Phosphate Buffer 20 mM Guanidine-HCl 80 mM NaCl 20 mM Acetate	250 mM KCl 250 mM Tris-HCl 25 mM Guanidine-HCl 125 mM NaCl 50 mM Acetate 25 mM MgCl ₂ 25 mM BSA	25 mM KCl 25 mM Tris-HCl 2.5 mM Guanidine-HCl 12.5 mM NaCl 5 mM Acetate 2.5 mM MgCl ₂ 2.5 mM BSA	TE-buffer 10 mM MgCl ₂ 50 mM NaCl 10% EtOH 10% 2-Prop 50 mM NaAc 1 ug/uL Glycogen
Physical Specifications					
Analysis time	16 samples < 20 min 96 samples < 90 min	16 samples < 20 min 96 samples < 105 min	16 samples < 25 min 96 samples < 135 min	16 samples < 20 min 96 samples < 120 min	16 samples < 25 min 96 samples < 140 min
Samples per device	16	16	15	15	15
Sample volume required	1 μL	2 μL	1 μL	2 μL	1 μL
Kit stability	4 months	4 months	4 months	4 months	4 months
Kit size	112 samples	112 samples	105 samples	105 samples	105 samples

¹ Signal/noise ratio >3 for a single peak

³ Accuracy for electronic ladder: ± 20 %

⁵ Average result from various genomic DNA sample types

² Determined using the respective ladder as sample

⁴ Measured against 2200 TapeStation system

For Research Use Only.
Not for use in diagnostic procedures.

Contact Us:

US/Canada

Phone: Toll-free 1-800 227 9770

Email: agilent_inquiries@agilent.com

Europe

Email: info_agilent@agilent.com

Asia Pacific

Email: adinquiry_aplsca@agilent.com

[www.agilent.com/genomics/
tapestation](http://www.agilent.com/genomics/tapestation)

© Agilent Technologies, Inc., 2017
Published in USA, January 9, 2017
Publication Number 5991-7785EN



Agilent Technologies