



ScreenTape Consumables and Reagents for the Agilent 2200 TapeStation Systems

Agilent offers a variety of ScreenTape consumables and reagents for the Agilent 2200 TapeStation system:

D1000 and High Sensitivity D1000 ScreenTape

For separation and analysis of DNA fragments, fragmented DNA and NGS libraries from 35 bp to 1,000 bp.

Genomic DNA ScreenTape

For analysis of genomic DNA samples from 200 to greater than 60,000 bp in NGS, as well as aCGH workflows.

RNA and High Sensitivity RNA ScreenTape

For fully automated, efficient and reliable RNA analysis for RNA characterization, quality assessment and quantification. The RNA integrity number equivalent (RIN^e) provides an instant and objective evaluation of total RNA degradation which has been fully validated against the gold standard RIN value from the Agilent 2100 Bioanalyzer system.

P200 ScreenTape

For automated protein QC from 10 to 200 kDa allowing to determine protein size, product purity and to compare different protein profiles.



Agilent Technologies

Agilent 2200 TapeStation DNA Assays

DNA Consumables and Reagents

| Part Number | Description | Quantity |
|-------------|---|-----------------|
| 5067-5582 | D1000 ScreenTape For the analysis of DNA from 35 to 1,000 bp. Includes 7 ScreenTape consumables. | 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 additional ladder. | |
| 5067-5584 | High Sensitivity D1000 ScreenTape For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes 7 ScreenTape consumables. | 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 additional ladder. | |
| 5067-5365 | Genomic DNA ScreenTape For the analysis of genomic DNA from 200 to >60,000 bp. Includes 7 ScreenTape consumables. | For 112 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 112 samples |



DNA Specifications

| Analytical Specifications | D1000 ScreenTape | High Sensitivity D1000 ScreenTape | Genomic DNA ScreenTape |
|--------------------------------|--|---|---|
| Sizing range | 35 – 1,000 bp | 35 – 1,000 bp | 200 bp to > 60,000 bp |
| Typical resolution | 35 – 300 bp: 15 % 300 – 1,000 bp: 10 % | 35 – 300 bp: 15 % 300 – 1,000 bp: 10 % | - - |
| Sensitivity¹ | 0.1 ng/µL | 5 pg/µL | 0.5 ng/ µL |
| Sizing precision | 5% CV | 5 % CV | 200 – 15,000 bp : 15 % ² |
| Sizing accuracy | ± 10% ³ | ± 10 % ³ | 200 – 15,000 bp: ± 15 % ² |
| Quantitative precision | 0.1 - 1 ng/µL: 15 % CV 1 - 50 ng/µL: 10 %CV | 15 % CV | 15 % CV ⁴ |
| Quantitative accuracy | ± 20 % ⁵ | ± 20 % ⁵ | ± 20 % ⁴ |
| Quantitative range | 0.1 – 50 ng/µL | 10 – 1,000 pg/µL | 10 – 100 ng/µL |
| Physical specifications | | | |
| Analysis time | 16 samples < 20 min 96 samples ~ 100 min | 16 samples < 20 min 96 samples ~ 100 min | 16 samples < 25 min 96 samples < 150 min |
| Samples per consumable | 16 | 16 | 16 |
| Sample volume required | 1 µL | 2 µL | 1 µL |
| Kit stability | 4 months | 4 months | 4 months |
| Kit size | 112 samples | 112 samples | 112 samples |

¹ Signal/noise >3 for a single peak

² Determined using the Genomic DNA Ladder as sample

³ Accuracy for software ladder: ± 20 %

⁴ Average result from various Genomic DNA sample types

⁵ Measured against 2100 Bioanalyzer system

Agilent 2200 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 consumables. | For 112 samples |
| 5067-5577 | RNA ScreenTape Sample Buffer For analysis of total RNA down to a sensitivity of 5 ng/μL. Includes sample buffer. Order with 5067-5576. | For 112 samples |
| 5067-5578 | RNA ScreenTape Ladder For the 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 the high sensitivity analysis of total RNA down to 100 pg/μL. Includes 7 ScreenTape consumables. | For 112 samples |
| 5067-5580 | High Sensitivity RNA ScreenTape Sample Buffer For the high sensitivity analysis of total RNA down to 100 pg/μL. Includes sample buffer. Order with 5067-5579. | For 112 samples |
| 5067-5581 | High Sensitivity RNA ScreenTape Ladder For the high sensitivity analysis of total RNA down to 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 |
| Quantitative range | 25 - 500 ng/μL | 500 - 10,000 pg/μL |
| Quantitative precision² | 5 % CV | 10 % CV |
| Quantitative accuracy | 20 % | 30 % |
| Sizing Range | 100 to 6,000 nt | 100 to 6,000 nt |
| Analysis type | 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 < 16 min 96 samples < 100 min | 16 samples < 30 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.

¹ Signal/noise >3 in water and TE.

² Within a ScreenTape.

Agilent 2200 TapeStation Protein Assays

Protein Consumables and Reagents

| Part Number | Description | Quantity |
|-------------|---|-------------|
| 5067-5371 | P200 ScreenTape For the analysis of proteins from 10 to 200 kDa. Includes 7 ScreenTape consumables. | 112 samples |
| 5067-5372 | P200 Reagents For the analysis of proteins from 10 to 200 kDa. Includes ladder, 5X Labeling dye, labeling buffer, reducing and non-reducing sample buffer, pH buffer and markers (pre-stained). | 112 samples |



Protein Specifications

| Analytical Specifications | P200 ScreenTape |
|--------------------------------------|--|
| Sizing range | 10 to 200 kDa |
| Sizing resolution¹ | 15 % |
| Sizing accuracy | ± 10 % (CAII, lysozyme, BLG) |
| Sizing precision | 3 % CV |
| Sensitivity² | 5 ng/μL (lysozyme, BSA) 12.5 ng/μL (IgG) |
| Quantitative range | 100 – 1,000 ng/μL (IgG) |
| Quantitative precision | 15 % CV |
| Qualitative range | 5 – 5,000 ng/μL (BSA, lysozyme) 12.5–5,000 ng/μL (IgG) |
| Physical Specifications | |
| Analysis time | 16 samples < 15 minutes |
| Samples per consumable | 16 |
| Sample volume required | 2 μL |
| Kit stability | 4 months |
| Kit size | 112 samples |

¹ For ladder

² Signal:noise ratio > 3

CAII = carbonic anhydrase, BLG = beta-lactoglobulin, BSA = bovine serum albumin

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