



Agilent SureScan Microarray Scanner



Agilent AriaMx Real-time
PCR System



Agilent Magnis NGS Prep System



Agilent Bravo Automated Liquid Handling

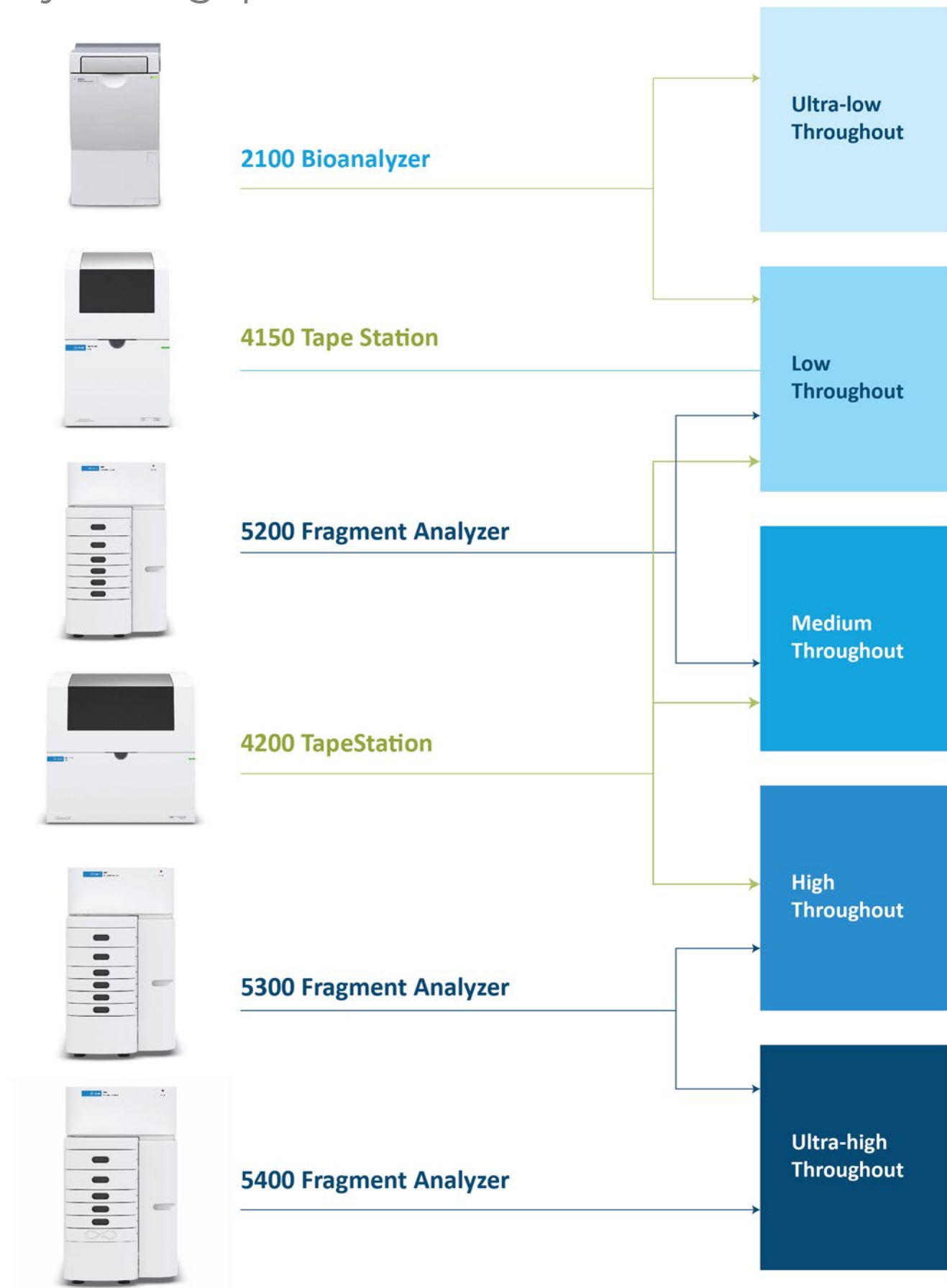


Agilent TapeStation System

Agilent Fragment Analyzer

Automated Electrophoresis Platforms

By throughput



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An Integrated System for In-vitro CRISPR/Cas9 Research

CRISPR/Cas9 is an RNA-guided DNA nuclease associated with Type II bacterial CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) immunity systems. Cas9 (CRISPR associated protein 9) is widely used to induce site-specific double-stranded breaks in DNA for multiple applications.

Agilent offers an integrated system for in vitro CRISPR/Cas9 research.

Agilent's chemically synthesized gRNAs are the industry standard for high quality, chemically modified single guides.

SureGuide gRNA synthesis and control kits allow rapid and simple preparation of guide RNA (gRNAs) to be used separately or bundled with the SureGuide Cas9 system.

CRISPR libraries allow researchers to obtain perfect sequence input.

The SureVector CRISPR library cloning kits provide reagents for preparation of a lentiviral plasmid library for in vivo expression of gRNA sequences.

The CRISPR Cas9 endonuclease kit provides in vitro cloning of large genes or DNA fragments without the limitations imposed by common restriction enzymes or PCR fidelity.



Complete workflow Solutions for PCR and qPCR

Universal qRT-PCR Master Mixes

- Brilliant Master Mixes (SYBR green)
- Brilliant master mixes (probe)
- Brilliant multiplex qPCR Master Mix

Specialty Master Mixes & Kits

- miRNA QRT-PCR Master Mix detection Kit
- qPCR NGS library Quantification Kit
- Porcine Detection kit
- MycoSensor qPCR Assay Kit

Control & References:

- Alien QRT-PCR Inhibitor Alert
- QPCR Reference Total RNA

DNA Isolation & Purification

- StrataPrep Plasmid Miniprep Kit
- RecoverEase DNA Isolation Kit

RNA Extraction and Purification

- Absolutely RNA Miniprep & MicroPrep Kits
- Absolutely RNA Nanoprep KIT
- Absolutely RNA FFPE Kit
- Absolutely miRNA Purification Kit
- Absolutely mRNA Purification Kit

cDNA Synthesis

- AffinityScript qPCR cDNA Synthesis Kit
- AffinityScriptMulti-Temp cDNA Synthesis Kit

DNA Synthesis

- pfuUltra II Fusion
- Herculase II Fusion
- Routine enzymes

Plastics:

A range of perfect-fit frames, tubes , and caps validated for optimal performance on Agilent PCR and qPCR systems.

RNA extraction:

Isolation methods for exceptionally pure RNA directly from cells, saving time and money.

cDNA synthesis:

High-efficient conversion of RNA to cDNA, fully optimized for qPCR applications.

qPCR master mixes:

Wide range of fast qPCR master mixes and highly sensitive detection kits.

Instruments:

Ultra-fast qPCR instrument with high precision to give you the confidence you need.

Bio - Reagents

Cloning Vectors and Kits

Agilent DNA cloning vectors improve yields and sequencing throughput.

Agilent PCR cloning kits deliver rapid and high efficiency cloning.

SureVector is the latest next-generation cloning to create custom vectors for any application. Fast and flexible, the SureVector system harnesses the power of synthetic biology to create novel vector constructs. It also enables reliable assembly of custom plasmids for mammalian, E. coli, and yeast cells by combining Agilent's functional DNA modules with custom genes and components

Protein Expression Vectors & Kits

Agilent's protein expression vectors and kits offer a large selection of products for any application. Offerings range from novel vectors for bacterial, mammalian, or yeast protein expression to our complete kits for inducible tagged expression.

The PathDetect System - Determine if a gene product or compound activates pathways leading to specific enhancers.

The InterPlay Mammalian TAP System allows you to recover interacting proteins from mammalian cells.

Viral-based gene delivery and expression systems such as AdEasy Adenoviral Vector Systems, ViraPort Retroviral Gene Expression System, and AAV Helper-Free systems provide exceptionally high-efficiency gene delivery to a broad range of host. Modules with custom genes and components.

Competent, electro competent and chemically competent cells

The right competent cells are critical to the success of protein expression or cloning, difficult cloning or expressing toxic proteins. Find the best option for your applications from Agilent's extensive and innovative selection of competent cells, electrocompetent or chemically competent cells. These include strains with the highest transformation efficiencies available, especially

useful when cloning large plasmids.

Our competent cells come in convenient packaging designed to satisfy higher throughput requirements. We offer custom configurations, formulations, and packaging options. Broad range of hosts. Modules with custom genes and components.

Fast and efficient mutagenesis kits

Agilent offers high-efficiency mutagenesis kits for any application. The latest generation of Quik Change site-directed mutagenesis kits contain specially engineered enzymes to speed up the protocol for performing single and multiple site-directed mutagenesis to less than 3 hours, letting you rapidly create point mutations, amino acid substitutions, insertions and deletions in virtually any double-stranded plasmid.

The GeneMorph II Random Mutagenesis Kits are formulated to produce a more uniform mutational spectrum when performing error prone PCR to achieve random mutagenesis.

The GeneMorph II EZClone Domain Mutagenesis Kit offers an easy method to perform targeted random mutagenesis on protein domains and promoter elements.

Enzymes, Inhibitors and Kits

Find the right enzymatic solutions from Agilent's stable of high quality enzymes, inhibitors, and kits. Agilent has DNA/RNA modification enzymes, DNA ligation kits, restriction enzymes and luminescent peel-off stickers for marking and aligning autoradiographs.

Agilent's DNA ligation kits contain the reagents needed to perform both sticky and blunt-end ligations at optimal ligation efficiency.

Restriction enzymes come with optimal or Universal buffer for double-digest reactions.

The DNA/RNA modifying enzyme kits deliver components for performing a large variety of applications, including partial or complete fill-ins, digestion of protein in biological samples and facilitation of site-directed mutagenesis reactions.

Enzymes, Inhibitors and Kits

Universal qPCR Master Mixes

- Brilliant Master Mixes (SYBR Green)
- Brilliant Master Mixes (Probe)
- Brilliant Multiplex qPCR Master Mix

Specialty Master Mixes & Kits

miRNA qRT-PCR Master Mix Detection Kit

The High-Specificity miRNA qRT-PCR Detection Kit and miRNA qRT-PCR Master Mix Detection Kit provide qualified reagents to polyadenylation of microRNAs (miRNAs) followed by synthesis of first-strand cDNA from these tailed miRNAs.

The kits detect mature miRNA from as little as 15 ng of total RNA input from various sample types and also differentiate between miRNAs that differ by as few as a single nucleotide. an easy method to perform targeted random mutagenesis on protein domains and promoter elements.

Key Features.

- Detect mature miRNA from as little as 15 ng of total RNA
- Differentiate miRNA that differs by a single nucleotide
- Sensitive detection down to 10 copies
- Highly accurate results in 3 hours
- miRNA Specific Forward Primers
- miRNA Primer Design Guidelines
- Novel PCR enzyme formulation and qPCR detection reagents give utmost specificity.

qPCR NGS Library Quantification Kit

Key Features.

- Provides researchers with an accurate and sensitive method for quantifying NGS libraries
- Validated in the SureSelect Target Enrichment Protocol for barcoding and indexing applications
- Accurate library quantification leading to optimal cluster densities for improved sequence efficiency and data quality.
- Consistent quantification across a broad range of samples, varying library insert sizes, and GC content.
- Quantify 84 libraries with each kit.

Porcine Detection Kit

Key Features.

- Two components: a DNA Isolation module and a qPCR Kit.
- Multiplex detection of porcine specific DNA and Alien DNA control
- Detection of porcine DNA down to 300fg.
- The qPCR kit amplifies and detects two distinct targets in a single reaction: a porcine-specific DNA sequence and an external DNA control
- No interference from Alien assay

MycoSensor qPCR Assay Kit

The MycoSensor PCR and qPCR assay kits detect Mycoplasma infection of cell cultures by real-time quantitative PCR (qPCR) or PCR in less than two hours. The easy-to-use system can specifically detect the eight most common Mycoplasma species.

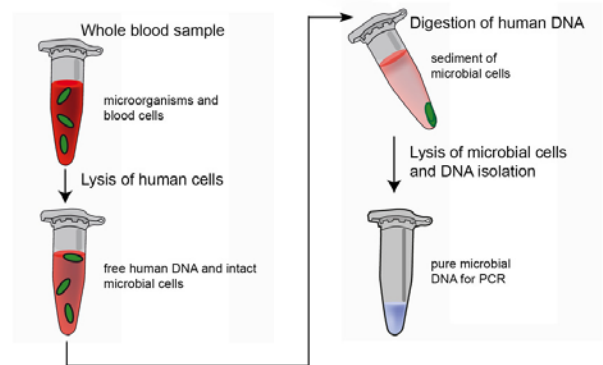
The system uses SYBR Green dye detection. The kit includes a primer mix that amplifies the eight most common Mycoplasma species that infect cell cultures. The MycoSensor qPCR assay kit primer mix can detect Mycoplasma infections in cell cultures in less than two hours.

Key Features.

- Detects Mycoplasma infection of cell cultures by qPCR or PCR in less than two hours
- Specific detection of the eight most common Mycoplasma species
- SYBR Green dye detection
- Easy to use



DNA Isolation & Purification



StrataPrep Plasmid Miniprep Kit

Key Features.

- A rapid, phenol-free method for purifying plasmid DNA from bacterial cultures.
- Bacteria is pelleted, lysed, and neutralized.
- Precleared lysate is mixed with a DNA binding solution and subjected to micro spin.
- Once bound, the purified DNA is washed, eluted, and ready for use.

RecoverEase DNA Isolation Kit

Key Features.

- Isolate high-molecular-weight genomic DNA (100-500 kb) from whole tissue
- Ideal for DNA isolation in transgenic mutation assays
- No organic extractions or ethanol precipitations
- Recovered DNA is ready for immediate use the next day for any downstream application be it Southern blot analysis, PCR or PFGE.
- Efficient recovery of transgenic shuttle vectors from Big Blue and other transgenic mice

SureDirect Blood PCR kit

Key Features.

- Rapid and reliable isolation of high-molecular-weight genomic DNA from whole blood and various other sources
- Obtain PCR-ready genomic DNA from whole blood samples of 1 Ql to 5 ml
- Specially formulated with a mutant of Taq DNA polymerase designed to overcome blood inhibitors

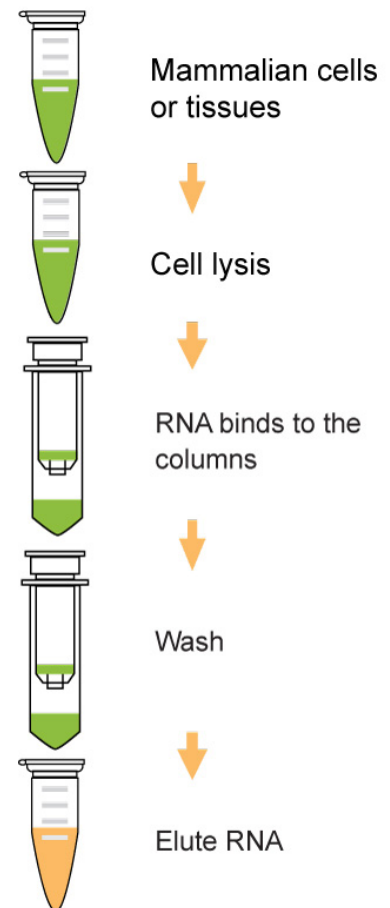
RNA Extraction and Purification

- **Absolutely RNA Miniprep & MicroPrep Kits**
- **Absolutely RNA Nanoprep Kit**
- **Absolutely miRNA Purification Kit**
- **Absolutely mRNA Purification Kit**

Absolutely RNA FFPE Kit

Key Features.

- Intuitive and consistent method for isolating quality RNA from formalin-fixed paraffin-embedded (FFPE) tissue samples.
- Phenol-free and non-toxic for safer analysis with lower risks of contamination.
- All relevant reagents are included for DNA-free total RNA and miRNA isolation with no additional purchase of DNase required.
- No heating, long centrifugation or re-purification required.
- Kits designed to help studies of gene expression patterns in diseased tissues.



cDNA Synthesis

AffinityScript qPCR cDNA Synthesis Kit

Key Features.

- Optimized for real-time quantitative PCR (qPCR) application
- Produces cDNA in 15 minutes with linear detection from 3 pg to 3 Qg total RNA
- Creates up to 12 kb cDNA in 25 minutes or less
- Available as a first-strand synthesis kit in a two-step qRT-PCR master mix format with SYBR Green or Probe - based detection.

AffinityScript Multi-Temp cDNA Synthesis Kit

Key Features.

- Achieve a robust cDNA yield with even GC-rich sequences
- Optimized to produce high cDNA yields over the broadest temperature range from 37°C to 55°C.
- Ensures high affinity to primer-template complexes
- Provides ideal sensitivity in detecting low input RNA
- Able to synthesize cDNA up to 20 kb

Enzymes

PfuUltra II Fusion HS DNA Polymerase

Key Features.

- Highest fidelity (1 error/2.5 million bp) for the most reliable, error-free PCR
- Fast extension. 70-80% quicker time-to-results
- Accurately amplifies up to 19 Kb genomic DNA targets
- Average error rate 3x lower than PfuTurbo, 20x lower than Taq
- Less than 0.5% errors in full-length 500 bp PCR products
- Features a genetically engineered mutant of Pfu DNA polymerase, the ArchaeMaxx Polymerase-Enhancing Factor, fusion technology, and hot start formulation.

Herculase II Fusion DNA Polymerases

Key Features.

- Superior yield for routine PCR applications and difficult/GC-rich targets
- Successful amplification of targets of all complexity with robust yield.
- Fast cycling times with 15 sec/kb extension rate
- Accurately amplifies up to 23 kb genomic DNA targets
- Preserves Pfu fidelity of 1 error/777,000 bp
- High sensitivity for amplification of low starting material

Controls & References

Alien qRT-PCR Inhibitor Alert

Key Features.

- Superior external control to detect inhibitors in RNA samples
- No notable nucleic acid homology
- Can be used to detect inhibitors in either 1-Step (single-tube) or 2-Step (two-tube) qRT-PCR assays utilizing SYBR Green dye for detection
- qPCR Reference Total RNA

Universal qPCR master mixes

Brilliant HRM Ultra-Fast Loci Master Mix

- MgCl₂ and dNTPs included at optimized concentrations
- Freeze thaw stability cuts waste and increases batch-to-batch reliability
- EvaGreen release-on-demand dye is non-toxic

Part Number	Description	Volume	Number of reactions
5190-7702	AriaMx HRM Calibration Kit. 1 x 96-well plate		96
5190-7909	Brilliant HRM Ultra-Fast Loci Master Mix Sample	150 µL	15
5190-7827	Brilliant HRM Ultra-Fast Loci Master Mix	2 ml	200

Brilliant Probe Multiplex MM

- Amplify up to four targets in a single real-time PCR reaction
- Provides sufficient reaction components to accurately quantify low and high abundance targets in the same tube
- Sensitivity equivalent to single plex
- More economical per sample than single plex

Part Number	Description	Volume	Number of reactions
600553	Brilliant Multiplex qPCR Master Mix. Amplifies up to four targets in a single real-time qPCR reaction. 25 µL/reaction.	2.5µL	200

qPCR Brilliant II Probe Master Mix (with ROX and without ROX)

- Fast kit that comes in master mix format, including hotstart enzyme
- Low-abundance RNA amplification
- Amplification and detection from total RNA, poly(A+), and synthetic RNA samples
- Multiplexing capability

Part Number	Description	Volume	Number of reactions
600804	Brilliant II qPCR Master Mix. High performance, ultra-sensitive, next generation qPCR master mix reagent for reliable quantification across a wide range of targets and templates. 25 µL/reaction.	5 ml	400
600815	Brilliant II qPCR Master Mix, High performance, ultra-sensitive, next generation qPCR master mix reagent for reliable quantification across a wide range of targets and templates. 25 µL/reaction.	50 ml	4000
600805	Brilliant II qPCR High ROX Master Mix. High performance, ultra-sensitive, next generation qRT-PCR master mix reagent with ROX reference dye for reliable quantification across a wide range of targets and templates.	5 ml	400
600806	Brilliant II qPCR Low ROX Master Mix. High performance, ultra-sensitive, next generation qPCR master mix reagent with ROX reference dye for reliable quantification across a wide range of targets and templates.	5 ml	400

qPCR Brilliant II SYBR Master Mix (with ROX and without ROX)

- These fast qPCR kits come in master mix format, including hotstart enzyme
- Low-abundance RNA amplification
- Amplification and detection from total RNA, poly(A+), and synthetic RNA samples

Part Number	Description	Volume	Number of reactions
600828	Brilliant II SYBR Green qPCR Master Mix. High performance, ultra-sensitive, brighter, and faster next generation SYBR Green qPCR master mix reagent for reliable quantification across a wide range of targets and templates. 25 μ L/rxn.	5 ml	400
600831	Brilliant II SYBR Green qPCR Master Mix. High performance, ultra-sensitive, brighter, and faster next generation SYBR Green qPCR master mix reagent for reliable quantification across a wide range of targets and templates. 25 μ L/rxn.	5 ml	4000
600829	Brilliant II SYBR Green High ROX qPCR Master Mix. High performance, ultra sensitive, brighter, and faster next generation SYBR Green qPCR master mix reagent with ROX reference dye for reliable quantification across a wide range of targets and templates.	5 ml	400
600830	Brilliant II SYBR Green Low ROX qPCR Master Mix. High performance, ultra sensitive, brighter, and faster next generation SYBR Green qPCR master mix reagent with ROX reference dye for reliable quantification across a wide range of targets and templates	5 ml	400

Passive Reference Dye (ROX)

- 1 mM, for controlling the final dye concentration
- Comes in 10 vials of 100 μ L
- Added to fluorescence-based qPCR assays

Part Number	Description	Volume	Number of reactions
600536	Passive Reference Dye (Rox). 1 mM, for controlling the final dye concentration. 10 vials @ 100 μ L	1000 μ L	

qRT-PCR Kits

Easy-A One-Tube RT-PCR Kit

- The only RT-PCR kit available with the capacity to provide both TA/UA cloning and high fidelity.
- The kit produces PCR products ready for high-throughput TA/UA cloning with greater than 95% cloning efficiency.
- Enables direct cloning of PCR products without requiring additional polymerase proofreading.
- The kit provides an accuracy level 6x greater than Taq analysis.

Part Number	Description	Volume	Number of reactions
600182	Easy-A One-Tube RT-PCR Kit. The only RT-PCR kit offering both TA/UA cloning and High-Fidelity	50	50

qRT-PCR Brilliant II Probe Core Reagent Kit

- Individual optimization of qRT-PCR reagent conditions
- One-step capability
- Multiplexing capability
- Low-abundance RNA
- Amplification and detection from total RNA, poly(A+), and synthetic RNA samples

Part Number	Description	Volume	Number of reactions
600810	Brilliant II qRT-PCR 1-Step Core Kit. High performance, ultra-sensitive, next generation qRT-PCR 1-step core reagent kit for reliable quantification across a wide range of targets and templates. 25 μ L/reaction.	5 ml	400
600819	Brilliant II qRT-PCR 1-Step Core Kit. High performance, ultra-sensitive, next generation qRT-PCR 1-step core reagent kit for reliable quantification across a wide range of targets and templates. 25 μ L/reaction.	50 ml	4000

qRT-PCR Brilliant II Probe Master Mix

- Greater flexibility for use with numerous templates and targets
- Developed on Agilent Mx qRT-PCR Systems
- Passive reference dye to maximize performance on different instrument platforms
- Multiplex kit for improved results on multiple targets

Part Number	Description	Volume	Number of reactions
600818	High performance, ultra-sensitive, next generation qRT-PCR 1-step master mix reagent for reliable quantification across a wide range of targets and templates. 25 μ L/reaction		
600827	Brilliant II qRT-PCR AffinityScript 2-Step Master Mix; High performance, ultra-sensitive, next generation qRT-PCR 2-step master mix reagent with AffinityScript RT for reliable quantification across a wide range of targets and templates. 25 μ L/reaction		400
600809	Brilliant II qRT-PCR 1-Step Master Mix. High performance, ultra sensitive, next generation qRT-PCR 1-step master mix reagent for reliable quantification across a wide range of targets and templates. 25 μ L/reaction.	5 ml	400

qRT-PCR Brilliant II Probe MM with ROX

- Maintains the high quality of our original Brilliant product line, but with greater detection sensitivity
- Ensures reproducible quantification even at low target concentrations
- Offers improved performance with earlier Ct detection across a wide dynamic range
- Increased sensitivity of detection to low copy numbers.

Part Number	Description	Volume	Number of reactions
600838	Brilliant II qRT-PCR High ROX 1-Step Master Mix. High performance, ultra sensitive, next generation qRT-PCR 1-step master mix reagent with ROX reference dye for reliable quantification across a wide range of targets and templates.	5 ml	400

Ultra-Fast qRT-PCR Kits

qRT-PCR Brilliant III Probe Master Mix

- More sensitive and faster via the quick-activating hot start and the engineered Taq-mutant
- Shortens total cycle time by ~60% compared to standard cycling
- Maintains amplification efficiency, R₂, dynamic range, and detection sensitivity
- Shorter total cycle time

Part Number	Description	Volume	Number of reactions
600885	Designed for researchers who want access to their data faster without compromising data quality. Each pack contains 400 reactions (20 µL/rxn).	4 ml	400
600884	Designed for researchers who want access to their data faster without compromising data quality. Each pack contains 400 reactions (20 µL/rxn).	4 ml	400

qRT-PCR Brilliant III SYBR Master Mix

- Provides specificity by utilizing a novel faster-activating hot start method that minimizes formation of primer-dimers and other off-target reactions
- Pre-blended formulations are compatible with any SYBR Green dye
- Yields reliable and reproducible data

Part Number	Description	Volume	Number of reactions
600887	Each pack contains 2 modules: RT module containing MMLV Reverse Transcriptase and RNase Block, 2x qPCR master mix with ROX in separate tube. Each pack sufficient for 400 reactions.		400
600886	Brilliant III Ultra-Fast SYBR Green qRT-PCR Master Mix. Pack contains two modules: RT module containing MMLV Reverse Transcriptase and RNase Block, 2x qPCR master mix with ROX in separate tube. Uses 20 µL/reaction.	4 ml	400

qRT-PCR Brilliant III SYBR Master Mix with ROX

- High sensitivity - down to 10 fg and 1 copy detection capability
- Resistance to inhibitors (blood and NaCl)
- Shorter run times with total cycling time of 40 min
- Wide dynamic range: from 100 ng to 10 fg
- Reproducible results
- Longer shelf life
- Reproducible results
- Longer shelf life

Part Number	Description	Volume	Number of reactions
600837	Brilliant II qRT-PCR Low ROX 1-Step Master Mix. High performance, ultra sensitive, next generation qPCR 1-step master mix reagent with ROX reference dye for reliable quantification across a wide range of targets and templates.	5 ml	400

Ultra-Fast qPCR Kits

qPCR Brilliant III Probe Master Mix (with ROX and without ROX)

- Fast kit with speeds at 40 min per 40 cycles
- Kit comes in master mix format and includes hotstart enzyme
- Low-abundance RNA, down to 10 fg
- Amplification and detection from total RNA, poly(A+), and synthetic RNA samples
- Multiplexing capability
- Reagents validated across a range of fast real-time PCR cyclers

Part Number	Description	Volume	Number of reactions
600880	Brilliant III Ultra-Fast qPCR Master Mix. Designed for researchers who want access to their data faster without compromising data quality. 20 μ L/rxn.	5 ml	400
600881	Brilliant III Ultra-Fast qPCR Master Mix. Designed for researchers who want access to their data faster without compromising data quality.	5 ml	400
600898	Brilliant III Ultra-Fast Probe Low ROX qPCR Master Mix. High performance, ultrasensitive, probe qPCR master mix reagent with low ROX concentration for reliable quantification across a wide range of targets and templates.		4000
600899	Brilliant III Ultra-Fast Probe High ROX qPCR Master Mix. High performance, ultrasensitive, probe qPCR master mix reagent with High ROX concentration for reliable quantification across a wide range of targets and templates.		4000
600888	Brilliant III Ultra-Fast Probe High ROX qPCR Master Mix. High performance, ultrasensitive, probe qPCR master mix reagent with High ROX concentration for reliable quantification across a wide range of targets and templates.	4 ml	400
600890	Brilliant III Ultra-Fast Probe Low ROX qPCR Master Mix. High performance, ultrasensitive, probe qPCR master mix reagent with low ROX concentration for reliable quantification across a wide range of targets and templates.	4 ml	400

qPCR Brilliant III SYBR Master Mix (with ROX and without ROX)

- Fast kit with speeds up to 40 min per 40 cycles
- This master mix comes in master mix format, including hotstart enzyme
- Low-abundance RNA, down to 10 fg
- Amplification and detection from total RNA, poly(A+), and synthetic RNA samples
- Reagents validated across a range of fast real-time PCR cyclers

Part Number	Description	Volume	Number of reactions
600883	Brilliant III Ultra-Fast SYBR Green qPCR Master Mix. Each pack contains two master mixes with ROX provided in separate tube. Uses 20 μ L/reaction.	40 ml	4000
600882	Brilliant III Ultra-Fast SYBR Green qPCR Master Mix. Pack contains two master mixes with ROX provided in separate tube. Uses 20 μ L/reaction.	4 ml	400
600889	Brilliant III Ultra-Fast SYBR Green High ROX qPCR Master Mix. High performance, ultrasensitive, SYBR Green qPCR master mix reagent with high ROX concentration for reliable quantification across a wide range of targets and templates.	4 ml	400
600892	Brilliant III Ultra-Fast SYBR Green Low ROX qPCR Master Mix. High performance, ultrasensitive, SYBR Green qPCR master mix reagent with low ROX concentration for reliable quantification across a wide range of targets and templates.	4 ml	400
600903	Brilliant III Ultra-Fast SYBR Green Low ROX qPCR Master Mix. High performance, ultrasensitive, SYBR Green qPCR master mix reagent with low ROX concentration for reliable quantification across a wide range of targets and templates.	40 ml	4000
600904	Brilliant III Ultra-Fast SYBR Green High ROX qPCR Master Mix. High performance, ultrasensitive, SYBR Green qPCR master mix reagent with high ROX concentration for reliable quantification across a wide range of targets and templates.	40 ml	4000



NGS Library Reagent Kits

DNA and RNA NGS Library prep kits

SureSelect XT HS2 DNA Reagent Kit

- Agilent's cutting-edge library prep and target enrichment solution for Illumina sequencing.
- Streamlined workflow, excellent performance and comprehensive features.
- The modular configuration enables an easy and parallel workflow for RNA and DNA sequencing.
- Equipped with molecular barcodes to detect low frequency alleles.
- A total of 384 unique dual indexing allows multiplex hundreds of samples.
- Choose the workflow that best fits your needs.

SureSelectXT HS Reagent Kits

- High-sensitivity DNA library prep kits with hybrid-capture-based target enrichment.
- Include reagents for library preparation, hybridization, and capture.
- They can be coupled with any SureSelect custom or catalog panel or exome.
- Molecular barcodes detect variants allele frequency down to 1% or less.
- Optimized for FFPE samples with as little as 10 ng of input DNA
- Offer an 8-hour workflow.
- Samples indexed prior to capture eliminates cross contamination.

SureSelectXT Low Input Reagent Kits

- Low input DNA library prep kits with hybrid-capture-based target enrichment.
- Optimized for low input FFPE samples.
- Include reagents for library prep, hybridization, and capture.
- Can be used with any SureSelect custom catalog panel or exome.
- Enable libraries from 10 ng DNA input from intact or FFPE samples.
- Streamlined workflow with an 8-hour turnaround time.
- The workflow is compatible with automation and unique dual sample indexes.
- Samples are indexed prior to capture, eliminating cross contamination.

SureSelectQXT Library Prep for WGS

- Transposase-based DNA library prep kit for whole-genome sequencing.
- 1.5 hours of hands-on time and dual index bar codes.
- The SureSelectQXT shearing-free DNA library prep kits enable generation of high-quality libraries.
- Uniform coverage of the genome, especially in challenging AT-rich regions.
- The kits come with master-mixed reagents
- Require 50 ng of input DNA.

SureSelect XT HS2 mRNA Library Preparation Kit

- Agilent's latest strand-specific, poly-A enriched mRNA-Seq solution for illumina sequencing.
- It targets the coding regions in the transcriptome for gene expression profiling, fusion detection and novel transcript discovery. Streamlined workflow that generates high quality libraries with excellent library complexity and uniform transcript coverage using 10 – 1000ng of total RNA. 384 unique dual indexes allow you to minimize index hopping.
- It is equipped with molecular barcodes to identify PCR artifacts.

SureSelectXT Methyl-Seq Library Preparation Kit for targeted methylation sequencing

- Whole genome bisulfite sequencing is costly and data analysis complex.
- Targeted methylation sequencing enables the determination of the methylation status of select known differentially methylated regions.
- Enables the preparation of gDNA for targeted sequencing.
- Libraries are enriched using Agilent's SureSelectXT Methyl-Seq Target Enrichment probes or panels, bisulfite treated and sequenced on an Illumina sequencer.

SureSelectXT RNA Direct Library Preparation Kit for Targeted RNA-Sequencing

- Generate cDNA libraries from challenging samples for targeted RNA sequencing.
- RNA-Seq libraries are enriched for customized transcripts using SureSelect RNA Target Enrichment probes improving read depth for low-frequency fusions/transcripts.
- This kit is optimized to work with highly degraded RNA (ex: FFPE),
- It does not require Poly(A) enrichment or rRNA depletion
- Has a streamlined workflow.
- SureSelect RNA Target Enrichment probes are fully customizable.
- Libraries are compatible with Illumina sequencers.

SureSelect Strand-Specific RNA Library Preparation for Whole-Transcriptome Sequencing

- Prepare Poly(A) enriched libraries for whole-transcriptome sequencing.
- Sequence a wide range of RNA to detect gene expression changes and alternative splicing.
- The kit contains mRNA sequencing library preparation and enrichment materials.
- Libraries are generated from as little as 50 ng of RNA in just 5 hours with minimal hands-on time.
- Libraries are compatible with Illumina sequencers

SureSelect XT HS2 RNA Reagent Kit

- Agilent's latest strand-specific RNA library prep and target enrichment solution for NGS sequencing.
- This targeted RNA-Seq workflow is optimized for FFPE samples and provides an effective way to profile gene expression and RNA fusions.
- Streamlined workflow with short turnaround time.
- The kit includes 384 unique dual indexes that allow you to minimize index hopping.
- It is equipped with molecular barcodes to identify PCR artifacts.
- The modular configuration enables an easy and parallel workflow for RNA and DNA sequencing using SureSelect XT HS2 chemistry.

DNA and RNA NGS Panels

SureSelect Human All Exon V8 kit

- Provides comprehensive and most up-to-date coverage of protein coding regions from RefSeq, CCDS, and GENCODE.
- It also covers the TERT promoter and hard-to-capture exons that are omitted by other exomes on the market.
- Powered by machine learning-based probe design the SureSelect Human All Exon V8 spans a 35.1 Mb target region of the human genome with an efficient end-to-end design size of only 41.6 Mb.
- The panel delivers excellent enrichment performance, as well as efficient, cost-effective exome sequencing.
- In addition, the panel is manufactured on a large scale to provide consistent results for many years.
- Compatible with streamlined SureSelectXT HS2, SureSelectXT HS, SureSelectXT Low Input, and SureSelectQXT library preparation and target enrichment systems.
- Feature a fast, 90-minute hybridization protocol, as well as the legacy SureSelectXT system.
- The V8 exome workflow is supported by the Bravo Automated Liquid Handling Platform for high-throughput sample preparation and Magnis NGS Prep System for complete, walkaway automation.
- The sequencing data can be processed using Alissa Reporter and Alissa Interpret for variant analysis, interpretation, and reporting, providing an end-to-end exome sequencing solution.

SureSelect Clinical Research Exome V2

- Most comprehensive medical exome solution available.
- Clinically relevant content curated by Emory University and the Children's Hospital of Philadelphia.
- Deeper coverage of the most relevant disease-associated targets.
- Only exome on the market to come with a list of included genes and their disease relevance.

SureSelect Focused Exome

- Highly targeted design that enables analysis of only disease-associated targets
- Enables superior coverage of disease-associated regions even on bench top sequencers.
- This design provides 20 or more reads for 95% of targets at 1.5Gb (100x) of sequencing and 98% of targets with 3Gb (200x) of sequencing.
- Combined with SureSelectQXT, enables 3.5x faster sample to sequence compared to other competing solutions.
- SureCall raw data to variant analysis software reduces turn-around time from raw data to mutation report.

SureSelect non-human Exome

- Agilent SureSelect animal exomes are predefined designs targeting the coding regions providing the greatest sequencing efficiency.
- We have exomes available for the mouse, rat and zebrafish.

SureSelect V8 Exome

The SureSelect Human All Exon V8 provides comprehensive and most up-to-date coverage of protein coding regions from RefSeq, CCDS, and GENCODE. It also covers the TERT promoter and hard-to-capture exons that are omitted by other exomes on the market. Powered by machine learning-based probe design and a new production process, SureSelect Human All Exon V8 spans a 35.1 Mb target region of the human genome with an efficient end-to-end design size of only 41.6 Mb. The panel delivers excellent enrichment performance, as well as efficient, cost-effective exome sequencing.

SureSelect CD Glasgow Cancer Core panel

The Glasgow Cancer Core Panel is designed for the comprehensive profiling of genomic events in solid tumors at a cost that is suitable for the healthcare system. These genomic events are linked with response or resistance to specific therapies, including approved agents and drugs in clinical development. This panel assays 174 genes for events including single nucleotide variants (SNVs), copy number variants (CNV's), short insertion and deletion (indels), large structural variants, and gene fusions/rearrangements. This panel is suitable for characterizing cancer biomarkers with proven or emerging clinical utilities.

SureSelect CD Glasgow Cancer Plus panel

The Glasgow Cancer Plus Panel targets a total of 353 cancer genes: The 174 genes covered in the cancer core panel and an additional 179 high confidence cancer genes. The latter genes represent candidates that are not yet clinically actionable but are aimed toward hypothesis-driven translational research or biomarker development for clinical trials and/or studies. Cancer plus panel is being used in ongoing clinical trials, including Scotland's IMAGINE trial, which generates genomic profiles for patients in phase I clinical trials.

SureSelect CD Glasgow Cancer Haem Panel

The Glasgow Cancer Haem Panel covers 262 genes that are clinically relevant for hematological cancers. This panel possesses a probe backbone to aid in CNV characterization in addition to detecting SNVs and indels. The Glasgow Cancer Haem Panel covers 262 genes that are clinically relevant for hematological cancers. This panel possesses a probe backbone to aid in CNV characterization in addition to detecting SNVs and indels. It also interrogates microsatellite sites for micro instability(MSI) status and offers sufficient panel size to call Tumor Mutation Burden(TMB)

SureSelect Custom DNA Target Enrichment Probes

- Agilent NGS Custom Target Enrichment Probes can be utilized to design customized hybrid capture panels to target any coding or non-coding regions of the genome or the transcriptome.
- Enabled by the SureDesign custom design tool, you can design and order any custom panel within minutes.
- Combine your custom panel with one of the OneSeq CNV backbones to achieve a comprehensive solution to detect SNVs, indels and CNVs in one workflow.

SureSelect Custom RNA Target Enrichment Probes

- Enrich cDNA library for specific low-abundance transcripts and gene fusions of interest.
- This targeted RNA sequencing approach improves sequencing coverage, read depth, and enhances sensitivity.
- Our expert design team can help custom design and order Custom RNA Target Enrichment Probes specifically designed with your experiment in mind.
- Your design can be used to enrich cDNA libraries generated with the SureSelectXT RNA Direct Library Preparation kit.

ClearSeq Comprehensive Cancer

- The ClearSeq Comprehensive Cancer targets 151 key genes associated with a wide range of cancers, including breast, lung, colorectal, and AML.
- Developed in collaboration with cancer researchers from Washington University in St Louis.
- Designed for deep coverage of target bases for confident variant detection.
- Compatible with the SureSelect Target Enrichment System with options of post-capture and pre-capture pooling available.

ClearSeq Inherited Disease Panel RUO

- Developed in collaboration with Medical Genetics, Charite Berlin,
- Focused yet comprehensive mutation profiling of 2742 genes known to cause inherited disorders.
- This panel is compatible with the SureSelect XT post-capture pooling and XT2 pre-capture pooling as well as the QXT and XTHS library prep and target enrichment solutions.
- Features 90-min hybridization.
- Single analysis and trio analysis are seamlessly supported by the SureCall software.

SureSelectXT Methyl-Seq Target Enrichment Panels

- Targeted methylation sequencing focuses on regions known to be differentially methylated has an impact on gene expression.
- Human, mouse, and rat panels available containing comprehensive content.
- These panels target cancer tissue-specific DMRs, GENCODE promoters, CpG islands, shores and shelves, and DNase I hypersensitive sites.
- Enrich libraries generated using SureSelectXT Methyl-Seq Library Preparation kit.

ClearSeq RNA Kinome

- The ClearSeq RNA Kinome targets the transcripts of a comprehensive set of protein kinase genes and kinase-related genes for focused sequencing,
- Allows global profiling of somatic mutations in genes involved in protein kinase signaling pathways.
- OneSeq CNV Backbone + SureSelect Custom Panels
- Comprehensive, all-in-one detection of genome-wide CNVs, copy-neutral LOH (cnLOH), SNPs, and indels in one target enrichment capture.
- Study both CNVs and mutations for constitutional studies in one assay.
- Functional copy number resolution of 300 Kb in the genome-wide backbone.
- OneSeq CNV backbone targets higher resolution of 25-50 Kb targeted in disease associated regions as defined by ClinGen.

OneSeq Constitutional Research Panel

- The OneSeq Constitutional Research Panel builds on SureSelect's ability to enhance constitutional and advanced clinical research.
- The OneSeq enables combined detection of genome-wide CNVs, copy-neutral LOH, and SNPs and indels.
- The OneSeq enables investigation of the role of CNVs and mutations in many genetic disorders.
- Offers a faster and more cost-effective solution than deep whole genome sequencing.
- The system also includes efficient integrated data analysis using Agilent's SureCall software



Community Designs

Agilent community designs for NGS have targeted NGS designs developed by or in collaboration with experts in various research areas, such as infectious disease, inherited disease, epigenetics, and model organism exome sequencing. These custom NGS designs are now available to Agilent customers as catalog, made-to-order designs. They are powered by Agilent SureSelect and HaloPlex target enrichment and are the industry's leading platform for long oligonucleotide probe synthesis.

Agilent Community Designs for Oncology Research

- NGS panels for somatic cancer biomarker profiling.
- These panels were designed for detecting genetic variants and genomic signatures, including tumor mutational burden (TMB) and microsatellite instability (MSI).
- The Glasgow cancer NGS panels were designed by the Glasgow Precision Oncology Laboratory (GPOL) team for comprehensive genomic profiling in solid tumors and blood cancers.

Infectious Disease Research Designs

- Agilent community designs offer NGS designs targeting many pathogens, including bacteria and viruses.
- The designs are for deep sequencing of pathogen genomes and enable target enrichment of pathogen sequences from human samples for infectious disease research.

Model Organism Exome Sequencing Designs

- The available designs include common lab animals such as mice, rats, and dogs.

Epigenetics Research Design

- Agilent community designs offer NGS designs targeting genomic regions for epigenetics research.
- Profiles differentially methylated regions through methylation sequencing.

Human Genetics Research Designs

- Agilent community designs offer NGS designs for comprehensive or focused coverage of genes relevant to human genetics research.
- These designs are compatible with either the Agilent SureSelect or HaloPlex target enrichment platform.

CGH+SNP Arrays



We provide whole genome CMA at variable resolutions, down to exon level, CGH+SNP arrays to analyze CN and LOH in a single experiment and application specific designs, including pre- post-natal, PGS, CNV and Cancer specific microarrays. Agilent's CGH platform provides unmatched flexibility on content and throughput, thanks to eight different microarray formats with variable density and arrays per slide. Agilent provides a database of more than 28 million validated probes, and easy tools to customize array content based on needs. Custom or catalog, all Agilent's CGH & CGH+SNP arrays benefit from proprietary SurePrint technology with long, high quality oligos.

SurePrint G3 Human CGH Microarray, 2x400K

- The Human Genome CGH Microarray is designed with 5.3 KB genome-wide median probe spacing and enhanced coverage on known genes, promoters, miRNAs, PAR and telomeric regions.
- The probe is designed to optimize sensitivity and precision, and the system contains a range of internal quality control features.

SurePrint G3 ISCA v2 CGH+SNP, 4x180K Microarray

- The Agilent SurePrint G3 ISCA v2 CGH+SNP 4x180K Microarray is a dual-color chromosomal microarray containing 60-mer high quality probes.
- Is an effective tool for targeted genome-wide DNA copy number variation profiling without amplification or complexity reduction.
- Designed with 25.3KB overall median probe spacing and 5.3KB on ISCA regions. The microarray includes 110,712 (CGH) and 59,647 (SNP) distinct biological features.
- In addition, the microarray contains a range of internal quality control features. Multiple microarray formats and bundled options are available.
- in CytoGenomics software.

SurePrint G3 Unrestricted CGH ISCA v2, 8x60K

- The Agilent SurePrint G3 ISCA v2 CGH 8x60K Microarray is designed with 60 KB overall median probe spacing and enhanced coverage on ISCA regions.
- The microarray includes 18,851 distinct biological features in ISCA regions and 40,208 backbone probes. In addition, the microarray contains a range of internal quality control features.

SurePrint G3 Human CGH Microarray, 2x400K

- Human Genome CGH Microarray 4x44K is a dual-color HD microarray containing 60-mer high-quality probes.
- The microarray is a nontargeted assay for genome-wide DNA copy number variation profiling without amplification or complexity reduction.
- It is designed with 43 KB genome-wide median probe spacing and enhanced coverage on known genes (24 KB), promoters, miRNAs, PAR, and telomeric regions.

Human Genome CGH Microarray, 4x44K

- Human Genome CGH Microarray 4x44K is a dual-color HD microarray containing 60-mer high quality probes.
- The microarray is a non targeted assay for genome-wide DNA copy number variation profiling without amplification or complexity reduction.
- It is designed with 43 Kb genome-wide median probe spacing and enhanced coverage on known genes (24Kb), promoters, miRNAs, PAR and telomeric regions.

SurePrint G3 Unrestricted CGH ISCA v2, 2x105K

- The Agilent SurePrint G3 ISCA v2 CGH 2x105K Microarray is designed with 35KB genome-wide median probe spacing and enhanced coverage on ISCA regions. • The microarray includes 19,647 distinct biological features in ISCA regions and 80,757 backbone probes. In addition, the microarray contains a range of internal quality control features

SurePrint G3 Unrestricted CGH ISCA v2, 4x44K

- The Agilent SurePrint G3 ISCA v2 CGH 4x44K Microarray is designed with 75KB overall median probe spacing and enhanced coverage on ISCA regions.
- The microarray includes 21,445 distinct biological features in ISCA regions and 125,061 backbone probes.
- In addition, the microarray contains a range of internal quality control features.

SurePrint G3 Unrestricted CGH ISCA v2, 8x60K

- The Agilent SurePrint G3 ISCA v2 CGH 8x60K Microarray is designed with 60 KB overall median probe spacing and enhanced coverage on ISCA regions.
- The microarray includes 18,851 distinct biological features in ISCA regions and 40,208 backbone probes. In addition, the microarray contains a range of internal quality control features.

SurePrint G3 Human CGH Microarray, 1x1M

- The Human Genome CGH Microarray is designed with 2.1 KB genome-wide median probe spacing and enhanced coverage on known genes, promoters, miRNAs, PAR and telomeric regions.
- The probes are designed to optimize sensitivity and precision.
- In addition, the microarray contains a range of internal quality control features. Multiple microarray formats and bundled options are available.

GenetiSure Cancer Research CGH+SNP Microarray, 2x400K

- Designed to target cancer regions of the genome sourced from the COSMIC and CGC databases.
- Loss of heterozygosity (LOH) detection.
- Resolution validated to 2.5 MB.
- More efficient association of aberrations with disease phenotypes.
- 89% of the exon is covered in the process.
- The CGC cancer array is optimized for CGH (comparative genomic hybridization) and CGH+SNP (Loss of heterozygosity) microarray workflows.

GenetiSure Cyto, 4x180K CGH Microarrays

- Set of three different microarray designs with content intended for the detection of copy number variations (CNV) only or CNV and copy-neutral loss of heterozygosity (cnLOH) in constitutional DNA samples extracted from blood, saliva, amniotic fluid or CVS.
- Intended for use by cytogenetic research and clinical laboratories,
- This microarray is focused on disease-associated regions linked to developmental delay, intellectual disability, neuropsychiatric disorders, congenital anomalies or dysmorphic features.
- This array provides high resolution CN down exon level.

Also available

- GenetiSure Cyto 4 x 180K CGH+SNP Microarrays
- GenetiSure Cyto 8 x 60K CGH Microarrays

SurePrint G3 Unrestricted CGH ISCA v2, 4x180K

- The Agilent SurePrint G3 ISCA v2 CGH 4x180K Microarray offers 25 KB overall median probe spacing and enhanced coverage on ISCA regions.
- The microarray includes 21,445 distinct biological features in ISCA regions and 125,061 backbone probes. The microarray also contains a range of internal quality control features.

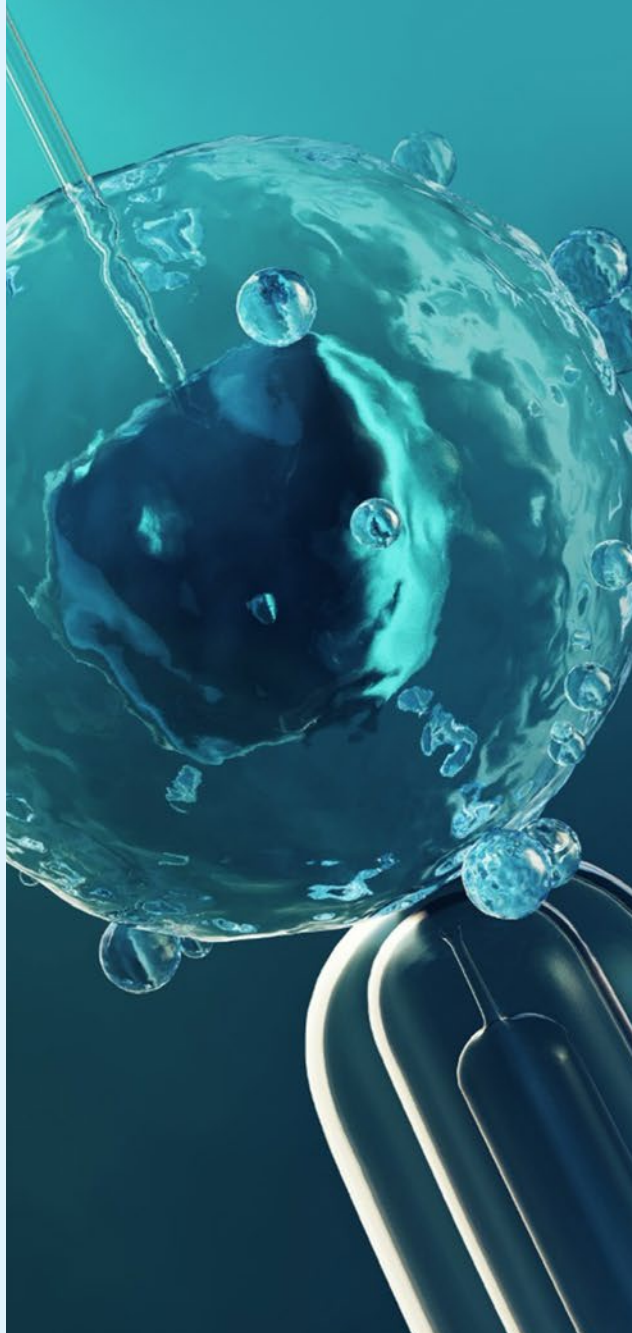
SurePrint G3 Human Genome CGH+SNP 2x400K Microarray

- The SurePrint G3 Human Genome CGH+SNP 2x400K Microarray is a dual-color microarray containing 60-mer high quality probes.
- The microarray is a high-resolution tool for genome-wide DNA copy number variation profiling without amplification or complexity reduction.
- It is designed with 7.2 KB overall median probe spacing and enhanced coverage on known genes, promoters, miRNAs, PAR and telomeric regions. Each microarray includes 292,097 (CGH) and 119,091 (SNP) distinct biological features. Multiple microarray formats and bundled options available.

SurePrint G3 ISCA v2 CGH+SNP, 4x180K Microarray

- The Agilent SurePrint G3 ISCA v2 CGH+SNP 4x180K Microarray is a dual-color chromosomal microarray containing 60-mer high quality probes.
- Is an effective tool for targeted genome-wide DNA copy number variation profiling without amplification or complexity reduction.
- Designed with 25.3KB overall median probe spacing and 5.3KB on ISCA regions. The microarray includes 110,712 (CGH) and 59,647 (SNP) distinct biological features.
- In addition, the microarray contains a range of internal quality control features. Multiple microarray formats and bundled options are available.

Reproductive Health



GenetiSure Post Natal CGH + SNP Research Array

- Simultaneous detection of copy number changes and copy neutral aberrations down to 2.5 Mb.
- Through the inclusion of exon-centric probes, the detection of aberrations associated with intellectual disability and congenital anomalies is maximized.
- The system can also be used in a wide range of postnatal array CGH research applications.
- Updated CGH probe content targeted to regions of the genome known to be disease-associated can be easily sourced from the ClinGen/ISCA database.

GenetiSure Pre-Screen Microarrays

- The GenetiSure Pre-Screen microarray screens for DNA copy number variations and chromosomal aneuploidies in human cell samples collected from embryo biopsies and single cell samples.
- The system takes advantage of Agilent's dual-color CGH technology and uses a specific protocol that allows sample vs sample hybridization and analysis against both male and female reference samples for optimal results.
- The microarrays have uniform, genome-wide probe coverage, with increased density on chromosomes 13, 18, 20, 21, 22 and X.
- These are the chromosomes associated with aneuploidy events, allowing sample-to-results in less than 24 hours. A single cell aneuploidy detection workflow is also included in CytoGenomics software.

GenetiSure Pre-Screen Complete Kit, 4X180

- The GenetiSure Pre-Screen Complete Kit from Agilent is a cost-effective solution for rapid identification of DNA copy number variations and aneuploidies in human cell samples collected from embryo biopsies and single cell samples.
- The kit includes QIAGEN REPLI-g MDA whole genome amplification, providing highly uniform amplification across the entire genome, with minimal locus bias during amplification.
- The GenetiSure Pre-Screen microarrays have uniform, genome-wide probe coverage, with increased density on chromosomes 13, 18, 20, 21, 22 and X.
- The complete kit solution includes the new amp and labeling bundle and all components needed to amplify and label up to 48 single-cell samples to maximize workflow efficiency with any throughput.

Also available as GenetiSure Pre-Screen Complete Kit, 8X60

GenetiSure Postnatal CGH +SNP Research Array, 2x400K

- Simultaneous detection of copy number changes and copy neutral aberrations down to 2.5 Mb.
- Through the inclusion of exon-centric probes, the detection of aberrations associated with intellectual disability and congenital anomalies is maximized.
- The system can also be used in a wide range of postnatal array CGH research applications.
- Updated CGH probe content targeted to regions of the genome known to be disease-associated can be easily sourced from the ClinGen/ISCA database.

Agilent OnePGT solution

- Genome-wide NGS approach with pre-test feature
- Single NGS workflow for PGT-M, PGT-SR and PGT-A
- Automatic comprehensive data analysis with built-in QC metrics
- Expert onboarding support during and after implementation
- Verified on blastomere and trophoctoderm biopsies

SurePrint G3 Unrestricted CGH, 8x60K Baylor Postnatal

- These Baylor College of Medicine CGH & CGH+SNP Microarrays are dual-color microarrays containing 60-mer oligonucleotides designed and optimized by Baylor College of Medicine experts to target regions relevant to postnatal research. The CGH+SNP microarrays also allow for the detection of copy neutral aberrations. Multiple microarray formats are available to accommodate different resolution needs.



Agilent AriaMx Real-time PCR System



DESCRIPTION

The AriaMx Real-Time PCR System is a fully integrated quantitative PCR amplification, detection and data analysis system. Now with innovative modular optics which can be changed out in one easy step, the instrument provides the flexibility to scale up over time, as needed. The latest design combines a state-of-the art thermal cycler, an advanced optical system with LED excitation source and data analysis software.

KEY FEATURES

- Open to all chemistries, including SYBR Green, EvaGreen dyes and fluorogenic probe systems such as TaqMan
- Combines a novel thermal cycler, an advanced optical system with LED excitation source and comprehensive data analysis software
- Ultrafast chemistry helps you to complete your study in a timely fashion
- Proprietary rapid hot-start enzymes and fastest industry high-resolution melt reagents
- Intuitive operation with a touch screen interface
- Modular optics and open reagent platform for increased agility
- Multiplex capability with six filters for five plexing
- Extended Diagnostic test – 125 performance points tested in less than 30 minutes
- Startup Diagnostics test – 59 performance points tested in a minute
- Intuitive open-source software and robust data analysis with proprietary algorithms
- Instrument validated on 100,000+ samples across 14 different assays

SELECTED APPLICATIONS

- Quantitative and qualitative gene expression analysis
- miRNA analysis
- Genetic mapping
- Genetic fingerprinting
- NGS library quantification
- HRM analysis (including genotyping, mutational analysis and Class IV SNP detection)
- Pathogen quantification
- 2-6 channel multiplex ability

ORDERING INFORMATION

Part Number	Description	Quantity
G8830A	Agilent AriaMx Real-Time PCR system (base instrument) Does not include PC	1
(Option 101)	SYBR/FAM Optical cartridge	1/pack
(Option 102)	ROX Optical cartridge	1/pack
(Option 103)	HEX Optical cartridge	1/pack
(Option 104)	CY3 Optical cartridge	1/pack
(Option 105)	CY5 Optical cartridge	1/pack
(Option 106)	ATTO425 Optical cartridge	1/pack
G5380AA	Electronic Tracking software	1
G5381AA	HRM analysis software upgrade	1

Agilent AriaMx Ordering Information

CATEGORY	PART#	DESCRIPTION	QUANTITY
Instrumentation	G8830A	Agilent AriaMx Real-Time PCR system (Without Computer)	1
	Option 101	SYBR/FAM Optical cartridge	1/pack
	Option 102	ROX Optical cartridge	1/pack
	Option 103	HEX Optical cartridge	1/pack
	Option 104	CY3 Optical cartridge	1/pack
	Option 105	CY5 Optical cartridge	1/pack
	Option 106	ATTO425 Optical cartridge	1/pack
Agilent AriaMx Software Upgrade (post instrument purchase)	G5380AA	Electronic Tracking software	1
	G5381AA	HRM analysis software upgrade only	1
Optical Cartridges (sold without instrument)	G883067001	SYBR/FAM Optical cartridge	1/pack
	G8830-67002	ROX Optical cartridge	1/pack
	G8830-67003	HEX Optical cartridge	1/pack
	G8830-67004	CY3 Optical cartridge	1/pack
	G8830-67005	CY5 Optical cartridge	1/pack
	G8830-67006	ATTO425 Optical cartridge	1/pack
Plasticware	401490	AriaMx 96-well plates, skirted and low profile	1 x 25/pack
	401491	AriaMx 96-well plates, skirted and rigid	1 x 25/pack
	401494	AriaMx 96-well plates, skirted and rigid	1 x 25/pack
	401492	AriaMx adhesive plate seals	1 x 50 plates
	401493	AriaMx low profile strip tubes for PCR and qPCR applications, without caps	8/strip x 120/box
	401425	AriaMx Strip caps for PCR and qPCR applications	8/strip x 120/box
Reagents			
	600880	Brilliant III Ultra-Fast qPCR Master Mix	400 rxns
	600882	Brilliant III SYBR Ultra-Fast qPCR Master Mix	10 pack (400 rxns)
	5190-7708	AriaMx SYBR Qualification Plate	1 plate/pack
	600553	Brilliant Multiplex qPCR Master Mix	200 rxns
	5190-7827	Brilliant HRM Ultra-Fast Loci Master Mix	200 rxns
	5190-7702	AriaMx HRM Calibration kit	1 x 96-well plate

Agilent 2100 Bioanalyzer Instrument



DESCRIPTION

The Agilent 2100 Bioanalyzer system is an established automated electrophoresis tool for sample quality control of biomolecules. The Agilent 2100 Bioanalyzer instrument provides a highly precise analytical evaluation of various sample types in many workflows, including next generation sequencing (NGS), gene expression, biopharmaceutical and gene editing research.

Digital data is provided promptly and delivers an objective assessment of sizing, quantitation, integrity and purity from DNA, RNA, and proteins. Minimal sample volumes are required for an accurate result and the data may be exported in different formats for ease-of-use.

KEY FEATURES

- High sensitivity: Down to pg/ μ L concentration
- Minimal sample consumption: Only 1–4 μ L of sample required
- Flexibility: On-chip electrophoresis of DNA, RNA, and proteins
- High-quality digital data: RIN algorithm for RNA sample integrity; DNA and protein sample quality control
- Contamination-free: Exchangeable electrode cartridge for easy switching between methods
- Sample quality control in multiple workflows, including sequencing, gene expression, biopharmaceuticals, and genome editing.
- Provides data on abundance, integrity, distribution, and impurities.
- Digital data with various data display options – gel view, electropherograms, and tables.
- Multiple exportable data formats (xml, csv, html, pdf, wmf, jpg, tif, bmp, and aia).
 - The 2100 Bioanalyzer instrument is compliant with European RoHS directives.
 - For GLP/GMP environments, the 2100 Bioanalyzer system offers IQ and OQ services, as well as features to enable 21 CF Part 11 compliance

SELECTED APPLICATIONS

DNA Analysis

- DNA library QC in target enrichment and next-gen sequencing workflows
- Sizing and quantitation of DNA libraries and fragmented DNA
- Quality control of FFPE DNA samples
- PCR product analysis

Food analysis

- Estimation of non-basmati rice amounts in basmati rice products
- Strawberry and raspberry fruit differentiation
- Detection of non-fish species with PCR-RFLP

RNA analysis

- Analysis of total RNA
- Standardization of RNA quality control
- Quality control with DV200 evaluation of FFPE RNA samples
- Assessing the integrity of RNA
- Analysis of Small RNA
- Analysis of miRNA

Genome editing

- Guide RNA analysis for CRISPR-Cas9 genome editing
- Protocol optimization for CRISPR-Cas9 workflows

Protein analysis

- Protein purification
- Analysis of modified proteins
- Analysis of PEGylated proteins
- High sensitivity protein analysis
- Detection of low abundant proteins
- Highly specific and sensitive alternative to western blotting
- Quantitation of low protein abundance with an internal standard
- Antibody analysis

ORDERING INFORMATION

Part Number	Description	Quantity
G2939BA	Agilent 2100 Bioanalyzer instrument For electrophoretic assays only. Model number G2939B. Includes the Bioanalyzer instrument, electrode cartridge, 2100 Expert software, instrument and electrophoresis licenses, chip priming station, chip vortexer, test chips, accessories, and installation and familiarization services. Note: Does not include PC.	1 system

DNA kits and reagents

Part Number	Description	Quantity
5067-4626	High Sensitivity DNA kit	For 110 samples
	For the separation, sizing and quantification of dsDNA samples of limited abundance ranging from 50 to 7000 bp. Includes 10 chips, reagents, ladder and consumables.	
5067-4627	High Sensitivity DNA reagents. Includes reagents and ladder; no chips.	For 10 chips
7-1504	DNA 1000 kit	For 300 samples
	For sizing and quantification of dsDNA fragments ranging from 25 to 1000 bp. Includes 25 chips, reagents, ladder and consumables.	
5067-1505	DNA 1000 reagents	For 25 chips
	Includes reagents and ladder; no chips.	
5067-1506	DNA 7500 kit	For 300 samples
	For sizing and quantification of dsDNA fragments ranging from 100 to 7500 bp. Includes 25 chips, reagents, ladder and consumables.	
5067-1507	DNA 7500 reagents	For 25 chips
	Includes reagents and ladder; no chips.	
5067-1508	DNA 12000 kit	For 300 samples
	For sizing and quantification of dsDNA fragments ranging from 100 to 12000 bp. Includes 25 chips, reagents, ladder and consumables.	
5067-1509	DNA 12000 reagents. Includes reagents and ladder; no chips	For 25 chips

RNA kits and reagents

Part Number	Description	Quantity
5067-1511	RNA 6000 Nano kit	For 300 samples
	For analysis and quantification of total RNA and mRNA samples. Includes 25 chips, reagents, ladder and consumables.	
5067-1512	RNA 6000 Nano reagents	For 25 chips
	Includes reagents and ladder; no chips.	
5067-1529	RNA 6000 Nano ladder	For 25 chips
	Includes ladder only.	
5067-1513	RNA 6000 Pico kit	For 275 samples
	For the analysis of total RNA and mRNA samples of low abundance. Includes 25 chips, reagents, ladder and consumables.	
5067-1514	RNA 6000 Pico reagents	For 25 chips
	Includes reagents and ladder; no chips.	
5067-1535	RNA 6000 Pico ladder	For 25 chips
	Includes ladder only	
5067-1548	Small RNA kit	For 275 samples
	For the analysis and quantification of small RNA samples ranging from 6 to 150 nt. Includes 25 chips, reagents, ladder and consumables.	
5067-1549	Small RNA reagents	For 25 chips
	Includes reagents and ladder; no chips	
5067-1550	Small RNA ladder	For 25 chips
	Includes ladder only.	

Protein kits and reagents

Part Number	Description	Quantity
5067-1515	Protein 80 kit	For 250 samples
	For sizing and quantification of protein samples from 5 to 80 kDa. Includes 25 chips, reagents, ladder and consumables.	
5067-1516	Protein 80 reagents	For 25 chips
	Includes reagents and ladder; no chips.	
5067-1517	Protein 230 kit	For 250 samples
	For sizing and quantification of protein samples from 14 to 230 kDa. Includes 25 chips, reagents, ladder and consumables.	
5067-1518	Protein 230 reagents. Includes reagents and ladder; no chips.	For 25 chips
5067-1575	High Sensitivity Protein 250 kit	For 100 samples
	For sizing and highly sensitive quantification of protein samples from 10 to 250 kDa. Includes 10 chips, analysis and labeling reagents, and consumables.	
5067-1576	High Sensitivity Protein 250 reagents	For 10 chips
	Includes reagents for Bioanalyzer analysis; no chips.	
5067-1577	High Sensitivity Protein 250 labeling kit	For 100 samples
	Includes reagents for labeling reaction	
5067-1578	High Sensitivity Protein 250 ladder	For 10 chips
	Includes ladder only.	

Agilent TapeStation Systems

4150 TapeStation System

4200 TapeStation System



DESCRIPTION

Agilent TapeStation systems are automated electrophoresis solutions for quality control (QC) of DNA and RNA samples. The TapeStation systems are all-in-one platforms, which include instrumentation, data processing software, reagents, and ScreenTape devices for analysis of sample size, quantity, and integrity. The systems fit perfectly into next-generation sequencing (NGS) or biobank workflows for low to high sample throughput.

KEY FEATURES

- Reduced samples (1-2 μ L) and reagent consumption,
- Faster analysis time (1-2 minutes per sample) and data analysis.
- Each ScreenTape device has 16 lanes
- Each sample is analyzed in an individual lane,
- completely eliminating contamination and carryover.
- Key benefit is the flexibility to run any sample number at a constant cost per sample.
- Comes in two models – 4200 and 4150

4200 TapeStation Key Features

- Fully automated sample processing for up to 96 samples
- Sample loading from two 8-tube strips or a 96-well plate
- Complete scalability: Analyze any sample number from 1 to 96 samples
- Reliable, reproducible results
- 1-2 minutes per sample and less than 90 minutes for 96 samples
- Perfect sample QC tool for high-throughput labs.

4150 TapeStation Key Features

- Sample loading from two 8-tube strips
- Complete scalability: Analyze any sample number from 1 to 16 samples
- Reliable, reproducible results within less than 20 minutes for 16 samples
- Small footprint saves precious bench space in your laboratory
- Perfect sample QC tool for low to mid throughput lab

SELECTED APPLICATIONS

DNA analysis

- Next-generation sequencing
- Analysis of DNA from FFPE tissue
- Quantitation of amplified SureSelectQXT whole genome libraries
- Quality control of final NGS libraries

PCR product analysis

- Quality control of single cell DNA samples

Genomic DNA

- Optimization of gDNA Extraction from FFPE tissue
- Quantitation of isolated genomic DNA (gDNA) samples
- Quantity and integrity analysis of genomic DNA for next generation sequencing

TAPE STATION ORDERING INFORMATION

Agilent TapeStation systems

Part#	Description	Quantity
G2991BA	4200 TapeStation system	1 system
	For DNA and RNA analysis. Includes the 4200 TapeStation instrument, laptop with TapeStation software, vortexer, accessories, consumables, user information, and installation and familiarization services.	
G2992AA	4150 TapeStation instrument	1 system
	For DNA and RNA analysis. Includes 4150 TapeStation instrument, TapeStation software, vortexer, accessories, consumables and user information, and installation and familiarization services.	

DNA consumables and reagents

Part#	Description	Quantity
D1000 ScreenTape assay – 35 bp to 1,000 bp		
5067-5582	D1000 ScreenTape	For 112 samples
	For the analysis of DNA from 35 to 1,000 bp. Includes 7 ScreenTape devices.	
5067-5583	D1000 reagents	For 112 samples
	For the analysis of DNA from 35 to 1,000 bp. Includes ladder and sample buffer. Order with 5067-5582.	
5067-5586	D1000 ladder	
	For the analysis of DNA from 35 to 1,000 bp. Includes 10 QL ladder.	
5067-5602	D1000 sample buffer	
	For the analysis of DNA from 35 to 1,000 bp. Includes 400 QL sample buffer.	
5067-5584	High Sensitivity D1000 ScreenTape	For 112 samples
	For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes 7 ScreenTape devices.	
5067-5585	High Sensitivity D1000 reagents	For 112 samples
	For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes ladder and sample buffer. Order with 5067-5584	
5067-5587	High Sensitivity D1000 ladder	
	For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes 20 QL ladder.	
5067-5603	High Sensitivity D1000 sample buffer For the high sensitivity analysis of DNA from 35 to 1,000 bp. Includes 300 QL sample buffer.	

D5000 ScreenTape assay – 100 bp to 5,000 bp

Part#	Description	Quantity
5067-5588	D5000 ScreenTape	For 105 samples
	For the analysis of DNA from 100 to 5,000 bp. Includes 7 ScreenTape devices.	
5067-5589	D5000 reagents	For 105 samples
	For the analysis of DNA from 100 to 5,000 bp. Includes ladder and sample buffer. Order with 5067-5588.	
5067-5590	D5000 ladder	
	For the analysis of DNA from 100 to 5,000 bp. Includes 10 QL ladder.	
5067-5592	High Sensitivity D5000 ScreenTape	For 105 samples
	For the high sensitivity analysis of DNA from 100 to 5,000 bp.	
	Includes 7 ScreenTape devices.	
5067-5593	High Sensitivity D5000 reagents	For 105 samples
	For the high sensitivity analysis of DNA from 100 to 5,000 bp. Includes ladder and sample buffer. Order with 5067-5592.	
5067-5594	High Sensitivity D5000 ladder	
	For the high sensitivity analysis of DNA from 100 to 5,000 bp. Includes 20 QL ladder	

Cell-free DNA ScreenTape assay – 50 bp to 800 bp

Part#	Description	Quantity
5067-5630	Cell-free DNA ScreenTape	For 112 samples
	For the analysis of cell-free DNA from 50 to 800 bp. Includes 7 ScreenTape devices.	
5067-5631	For the analysis of cell-free DNA from 50 to 800 bp.	For 112 samples
	Includes ladder and sample buffer. Order with 5067-5630.	
5067-5632	Cell-free DNA ladder	
	For the analysis of cell-free DNA from 50 to 800 bp. Includes 50 QL ladder and sample buffer.	
5067-5633	Cell-free DNA Sample Buffer	
	For the analysis of cell-free DNA from 50 to 800 bp. Includes 300 QL sample buffer.	

Genomic DNA ScreenTape assay – 200 bp to > 60,000 bp

Part#	Description	Quantity
5067-5630	Genomic DNA ScreenTape	For 105 samples
	For the analysis of genomic DNA from 200 to > 60,000 bp. Includes 7 ScreenTape devices.	
5067-5631	Genomic DNA reagents	For 105 samples
	For the analysis of genomic DNA from 200 to > 60,000 bp. Includes ladder and sample buffer. Order with 5067-5365.	

RNA consumables and reagents

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



Agilent Fragment Analyzer systems



DESCRIPTION

The Agilent Fragment Analyzer system is an automated parallel capillary electrophoresis.

It offers nucleic acid quality control for a range of applications, including NGS libraries and cfDNA QC. Simple sample preparation, automated operation and intuitive analysis software contribute to efficient and accurate measurement minimizing time to result.

KEY FEATURES

- Unattended Operation - Load and run up to three 96 well plates, or 288 samples, without human intervention.
- Decreased Platform Preparation Time - With room temperature stable reagents and no daily array handling, minimal work is needed to set up runs.
- Reduced Sample Handling - Requires only a single dilution step into the sample plate or tube strips.
- Low Cost per Sample - Choose qualitative or quantitative gel kits that best suit your analysis needs.
- High Resolution - Achieve as low as 3bp resolution under 300 bp.
- Detection Level of nucleic acids - down to pico gram level.
- Separate 12 samples in parallel in as little as 15 minutes
- Choose between three different capillary array lengths for the required blend of speed or resolution
- Improve lab efficiency by loading and programming samples while separation is currently running
- Move samples up or down in queue to adjust run priorities
- Use quality metrics for RNA (RQN) and genomic DNA (GQN) to remove subjective quality assessments
- Kits provide a wide dynamic range covering two orders of magnitude
- Achieve accurate molarity calculations with reliable smear analysis
- IQ/OQ services available for use in GMP environments

There are three models, varying only in throughput, to fit the needs of any lab.



5200 fragment analyzer system

Medium throughput system for labs running 12-96 samples one to three times per day.



5300 fragment analyzer system

high-throughput system for labs running one to two 96-well plates up to three times per day.



5400 fragment analyzer System

Ultrahigh-throughput system for robotic automation running more than two 96-well plates per day.

KEY FEATURES

5200 Fragment Analyzer System	5300 Fragment Analyzer System	5400 Fragment Analyzer System
12 capillary arrays	48 and 96 capillary array	96 capillary array
Separate 12 samples in parallel in as little as 15 minutes.	Separate up to 48 or 96 samples in parallel.	Run more than two 96 well plates per day
Performs DNA QC and RNA QC for a broad range of samples including, gDNA, small RNA, cfDNA, large DNA fragments, and total RNA.	Ideal for high throughput labs running one to two 96 well plates up to three times per day.	Perform around the clock analysis of DNA and RNA samples through robotic integration.
Ideal for individualized workflows, including NGS library QC and CRISPR workflows.		Seamless integration with API commands, LIMS capabilities and automated data analysis.
Suitable for medium throughput labs running 12-96 samples one to three times per day.		

SELECTED APPLICATIONS

- Next-generation sequencing (NGS) library preparation
- Genotyping.
- PCR amplicons
- Simple sequence repeats (SSR)/microsatellite amplicons
- Restriction digest analysis
- Plasmid DNA
- CRISPR-TILLING mutation detection
- CRISPR guide RNA
- Polyadenylated IVT RNA
- Total RNA
- mRNA – IVT RNA
- FFPE RNA
- Small RNAs (including microRNA)

ORDERING INFORMATION

Fragment Analyzer Systems		
Part Number	Description	Quantity
M5310AA	5200 Fragment Analyzer. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Includes the 5200 Fragment analyzer instrument, computer and monitor, controller and analysis software	1
M5311AA	5300 Fragment Analyzer. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Includes the 5300 Fragment analyzer instrument, computer and monitor, controller and analysis software.	1
M5312AA	5400 Fragment Analyzer. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Includes the 5400 Fragment analyzer instrument, computer and monitor, controller and analysis software.	1

Agilent Fragment Analyzer Systems Ordering Information

Part Number	Description	Unit Quantity
M5310AA	5200 Fragment Analyzer. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Includes the 5200 Fragment analyzer instrument, computer and monitor, controller and analysis software	1
M5311AA	5300 Fragment Analyzer. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Includes the 5300 Fragment analyzer instrument, computer and monitor, controller and analysis software.	
M5312AA	5400 Fragment Analyzer. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Includes the 5400 Fragment analyzer instrument, computer and monitor, controller and analysis software.	1

Agilent Fragment Analyzer Systems DNA Analysis Kits-Small Fragment and NGS Kits

Part Number	Description	Unit Quantity
DNF-473-0500	NGS Fragment Kit (1-6000bp), 500. Fragment Analyzer system kit for the quantitative and qualitative analysis of NGS libraries and intermediates from 100 to 6,000 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-474-0500	HS NGS Fragment Kit (1-6000bp), 500. Fragment Analyzer system kit for the quantitative and qualitative analysis of NGS libraries and intermediates from 100 to 6,000 bp at low concentrations. Includes reagents necessary for running 500 samples.	1 Kit
DNF-476-0500	Small Fragment Kit, 500. Fragment Analyzer system kit for the quantitative and qualitative analysis of small dsDNA fragments and smears as well as PCR DNA fragments from 50 to 1,500 bp at high concentrations. Includes all the reagents necessary for running 500 samples	1 Kit
DNF-477-0500	HS Small Fragment Kit, 500. Fragment Analyzer system kit for the quantitative and qualitative analysis of small DNA fragments and smears from 50 to 1,500 bp at low concentrations. Includes the reagents necessary for running 500 samples	1 Kit
DNF-473-1000	NGS Fragment Kit (1-6000bp), 1000. Fragment Analyzer system kit for the quantitative and qualitative analysis of NGS libraries and intermediates from 100 to 6,000 bp. Includes reagents necessary for running 1,000 samples.	1 Kit
DNF-474-1000	HS NGS Fragment Kit (1-6000bp), 1000. Fragment Analyzer system kit for the quantitative and qualitative analysis of NGS libraries and intermediates from 100 to 6,000 bp at low concentrations. Includes reagents necessary for running 1,000 samples.	1 Kit

Agilent Fragment Analyzer Systems DNA Analysis- Genomic DNA Kits

Part Number	Description	Unit Quantity
DNF-467-0500	Genomic DNA 50kb Kit, 500	1 Kit
DNF-468-0500	HS Genomic DNA 50kb Kit, 500	1 Kit

Agilent Fragment Analyzer-Plasmid DNA Kit

Part Number	Description	Unit Quantity
DNF-940-K0500	Plasmid DNA Analysis Kit, 500 Samples	1 Kit

Agilent Fragment Analyzer System CRISPR Kits

Part Number	Description	Unit Quantity
DNF-910-K1000CP	CRISPR Discovery Gel Kit, 1000 Samples. Fragment Analyzer system kit for screening CRISPR-induced mutation events. Includes reagents necessary for running 1,000 samples.	1 Kit

Agilent Fragment Analyzer-Large Fragment Analysis Kits

Part Number	Description	Unit Quantity
DNF-464-0500	HS Large Fragment 50kb Kit, 500. Fragment Analyzer system kit for the analysis of large DNA fragments and smears ranging from 75 to 50,000 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-492-1000	Large Fragment Kit, 1000. Fragment Analyzer system kit for the quantitative and qualitative analysis of large DNA fragments and smears from 50 to 20,000 bp. Includes reagents necessary for running 1,000 samples.	1 Kit
DNF-492-0500	Large Fragment Kit, 500. Fragment Analyzer system kit for the quantitative and qualitative analysis of large DNA fragments and smears from 50 to 20,000 bp. Includes reagents necessary for running 500 samples.	1 Kit

Agilent Fragment Analyzer-Qualitative DNA Kits

Part Number	Description	Unit Quantity
DNF-905-K1000	dsDNA 905 Reagent Kit (1-500bp), 1000. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 35 to 500 bp with enhanced separation. Includes reagents necessary for running 1,000 samples.	1 Kit
DNF-905-K0500	dsDNA 905 Reagent Kit (1-500bp), 500. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 35 to 500 bp with enhanced separation. Includes reagents necessary for running 500 samples.	1 Kit
DNF-910-K1000	dsDNA 910 Reagent Kit (35-1500bp), 1000. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 35 to 1500 bp. Includes reagents necessary for running 1000 samples.	1 Kit
DNF-910-K0500	dsDNA 910 Reagent Kit (35-1500bp), 500. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 35 to 1500 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-915-K1000	dsDNA 915 Reagent Kit (35-5000bp), 1000. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 35 to 5000 bp. Includes reagents necessary for running 1000 samples.	1 Kit
DNF-915-K0500	dsDNA 915 Reagent Kit (35-5000bp), 500. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 35 to 5000 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-920-K0500	dsDNA 920 Reagent Kit (75-15000bp), 500. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 75 to 15000 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-930-K1000	dsDNA 930 Reagent Kit (75-20000bp), 1000. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 75 to 20000 bp. Includes reagents necessary for running 1000 samples.	1 Kit
DNF-930-K0500	dsDNA 930 Reagent Kit (75-20000bp), 500. Agilent Fragment Analyzer system kit for genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 75 to 20000 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-935-K0500	dsDNA 935 Reagent Kit (1-1500bp), 500. Agilent Fragment Analyzer system kit for rapid genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 1 to 1500 bp. Includes reagents necessary for running 500 samples.	1 Kit
DNF-935-K1000	dsDNA 935 Reagent Kit (1-1500bp). 1000. Agilent Fragment Analyzer system kit for rapid genotyping and qualitative analysis of PCR amplicons, microsatellites, and SSR's from 1 to 1500 bp. Includes reagents necessary for running 1000 samples.	1 Kit

Agilent FEMTO Pulse



DESCRIPTION

The Agilent Femto Pulse system shatters nucleic acid analysis barriers, giving researchers unparalleled sensitivity to analyze large nucleic acid fragments in about 1.5 hours. An automated pulsed-field power supply allows the separation of DNA up to 165 kb. The optimized optical platform enables 10 times higher sensitivity for nucleic acid smear analysis (up to 100 times higher for fragment analysis) and offers detection capabilities down to 50 fg/ML

KEY FEATURES

- Quickly and accurately quantify, qualify, and size DNA fragments through 200 Kb
- Detect DNA fragments down to 50 fg/QL (in-well concentration)
- Replaces overnight PFGE without compromising separation resolution or quantification, all in about 1 hour
- Conserve sample for downstream applications with superior detection.
- Separate and quantify a single cell's worth of genomic DNA or Total RNA
- Analyzes low concentration and/or large size nucleic acid samples.
- Minimize sample degradation with fewer pipetting steps and stable reagents.
- A single dilution of sample is all that is needed before running on the system.
- Single intuitive software program automates analysis of diverse sample types.

SELECTED APPLICATIONS

DNA analysis

- HMW genomic DNA analysis
- Large DNA fragment libraries
- BAC clones
- Single cell genomic DNA and total RNA
- Low concentration NGS library preparations
- cfDNA - FFPE nucleic acid isolates
- Single or multiple DNA fragment

ORDERING INFORMATION

Agilent Femto Pulse System		
Part Number	Description	Quantity
M5330AA	Agilent Femto Pulse System. Parallel capillary electrophoresis instrument for analysis of nucleic acids. Compatible with the Femto Pulse 12-capillary array	1

Agilent ZAG DNA Analyzer



DESCRIPTION

The Agilent ZAG DNA Analyzer system is designed to alleviate fragment analysis bottlenecks by allowing labs to load up to 864 samples at once and separate more than 4,608 samples per day. Complete automated replacement of agarose gels.

This system is ideal for a range of DNA fragment applications, from basic PCR fragment analysis to microsatellite detection. Minimal sample preparation, automated separation of samples, and the option for continuous operation help keep your workflow moving.

KEY FEATURES

- Automated parallel capillary electrophoresis to separate 96-samples simultaneously.
- Designed for high-throughput fragment analysis
- Low sample cost for routine fragment analysis
- Multiple kits for varying size ranges and applications
- High Separation Resolution - Reliably distinguish and size DNA fragments within 3 bp of each other
- High Throughput - Process 48, 96-well sample trays in 24 hours.
- Fast Separation Times - Samples can be separated in as little as 20 minutes.
- Intuitive Data Analysis - Analytical software can process separation data automatically after the run and generate a report in multiple formats.

SELECTED APPLICATIONS

- Applications include PCR amplicon analysis, genotyping, restriction digest analysis and microsatellite/SSR analysis.
- Identification of DNA fragments during vector construction, clone selection and synthetic biology applications.
- Genotyping - Easily identify wildtype, homozygous, heterozygous knockouts with flag analysis.
- Microsatellite detection - Repeats of 3 bp or greater can be detected in about an hour.
- PCR Fragment sizing - Accurately size PCR fragments from 35 to 20,000 bp.
- Allows separation of closely sized DNA fragments down to 3 bp difference at or below 300 bp.

ORDERING INFORMATION

Agilent ZAG DNA Analyzer System		
Part Number	Description	Quantity
M5320AA	Agilent ZAG DNA Analyzer System. High throughput capillary electrophoresis instrument for qualitative analysis of DNA fragments.	1

Agilent SureScan Microarray Scanner



DESCRIPTION

Agilent's new DNA Microarray Scanner with SureScan High-Resolution Technology enables automated high-speed scanning and is able to produce high-quality data from both legacy and upcoming arrays. The scanner is equipped with new optics, electronics and software. With an extended dynamic range (XDR) of up to 20 times greater than other leading scanners and fast high-resolution scanning of up to 2 microns in under 20 minutes, the Agilent DNA Microarray Scanner provides state-of-the-art technology for microarray applications.

KEY FEATURES

- Agilent provides a complete platform including scanner, reagents, hardware, bar code reader, auto-loader and software.
- Designed for research using microarrays, the scanner system provides a laser-induced fluorescence scanning solution designed to read microarrays printed on standard 1 inch by 3 inch glass slides.
- The microarray instrumentation measures the fluorescence intensity of two dyes simultaneously from labeled sample nucleic acid bound to microarrays.
- The system also enhances productivity with continuous loading from a 24-slide cassette and automatic loading of data files into Feature Extraction Software.
- It also features built-in ozone protection to minimize signal degradation.
- Superior detection of low-abundance and weakly expressed genes
- High throughput Microarray Scanner Capable of scanning more than 120 samples in a day.
- In situ synthesis process prints 60-mer oligo probes, base-by base, from digital sequence files
- Scanner sensitivity of 0.01 cpsm (chromophore per micron square)
- System has array capability to support multiple applications for Human, Animal and Bacteria.
- The system supports both catalog and custom arrays.
- Sample requirement as low as 10ng
- System scans variable multi-format chip such as 1/2/4 and 8 samples in a single slide.

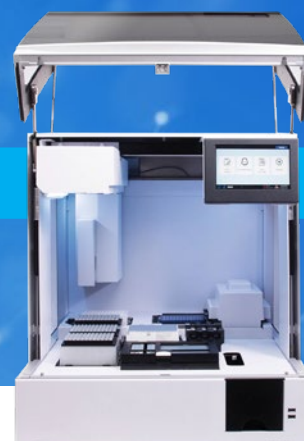
SELECTED APPLICATIONS

- Molecular Cytogenetics
- Gene expression (m-RNA)
- miRNA expression
- SNP and CNV combined array
- Copy number variation arrays
- Exon array
- Alternate splicing
- Methylation
- Chip-on Chip
- Protein Arrays
- Pre-Implantation Genetics Applications (PGS)
- Custom array for all above applications

ORDERING INFORMATION

Part Number	Description	Quantity
G4900DA	Agilent SureScan Microarray Scanner Bundle	1
G2545A	Rotator Rack for Hyb Oven	1
G2545A	Hybridization Oven	1
G2534A	Hybridization Chamber, Quick Assemble	1

Agilent Magnis NGS Prep System



DESCRIPTION

The Agilent Magnis NGS Prep system was designed to run complex NGS library assay with minimal technical knowledge and hands-on time – all with the press of a button. Magnis works seamlessly with Agilent's industry-leading SureSelect target enrichment system and delivers sequencing data that are robust, traceable, and reproducible. It produces sequencing-ready libraries compatible with Illumina platforms.

KEY FEATURES

- This new bench-top instrument self-detects and tunes.
- The reagents come pre-aliquoted with pre-set protocols.
- In addition, the Magnis notifies users of correct reagent placement through automated barcode checking.
- Upon pressing the start button, the user can walk away from the instrument, yet visually check progress through the wizard and the LED status indicator.
- Fully automated onboard wizard guides to prepare for a run in 5 minutes by loading the sheared genomic DNA, prepackaged SureSelect XT HS reagents, and plastic consumables onto the Magnis System deck.
- The Agilent Magnis System performs all library preparation and hybrid capture-based target enrichment steps including PCR amplification, using the integrated on deck thermocycler.
- On board integrated HSM module (Heater, shaker and Magnetic bead), save critical lab space and increases time efficiency.
- Smart camera notifies customers of any empty or wrongly placed trays.
- On board UV light for decontamination
- When combined with the Agilent 4150 TapeStation System, the Magnis system provides quality control of the sample throughout the workflow.
- Small footprint saves valuable lab space.

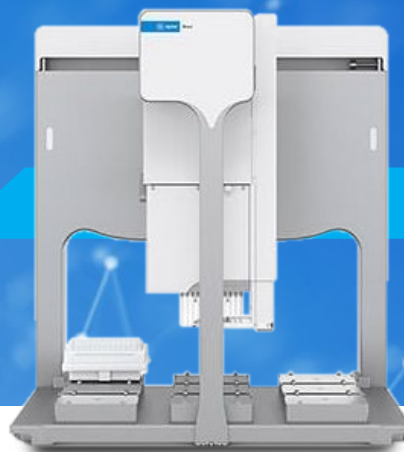
SELECTED APPLICATIONS

- The system is fully automated to deliver eight libraries in under 9 hours, using between 10 to 200 ng of sheared genomic DNA input.

ORDERING INFORMATION

Part Number	Description	Quantity
G9710AA	Agilent Magnis NGS Prep Instrument (RUO)	1

Agilent Bravo Automated Liquid Handling Platform



DESCRIPTION

The Agilent Bravo is a flexible liquid handling platform that automates your sample preparation for screening applications such as compound management, cell-based assays, and biochemical assays. With this robotic liquid handling system, researcher time is freed up and consistent data are achieved across samples and users.

With more than 60 accessories ranging from heater/cooler to shaker, the system can be tailored to automate most sample preparation protocols.

Automating your sample prep protocol has never been easier with the included VWorks control software that allows users to create and run flexible liquid handling protocols quickly.

KEY FEATURES

- Compact, space-saving nine microplate-position footprint fits in a laminar flow hood
- Precise pipette heads dispense from 300 nL to 250 μ L in 96-, 384-, and 1536- microplates using disposable tips
- Versatile 96 and 384 pipette heads can be swapped easily for seamless scalability.
- Unique open design permits access from all sides for improved user interaction
- Provides ability to pick up tips using a single barrel, row, column or arrays of barrels
- VWorks control software helps you to quickly create automated protocols by using the intuitive drag and drop tasks
- Agilent Instrument Qualification (AIQ) provides a set of traceable tests for installation (IQ) and operation (OQ) to qualify that the system operation meets Agilent release criteria
- A light curtain ensures compliance with regional safety requirements.

SELECTED APPLICATIONS

- Agilent NGS Workstation delivers higher throughput with less hands-on time
- Increase throughput up to 3.5 fold compared to manual sample preparation.
- For whole genome sequencing applications that require only library preparation, 96 samples can be prepared in less than four hours to increase laboratory output to 960 sequencer ready libraries in a five day work week.
- For more complex protocols, such as targeted resequencing using Agilent SureSelectXT, Bravo can complete library preparation and target enrichment for 192 samples in a five-day work week.

Simplify your scale up with modular automation solutions

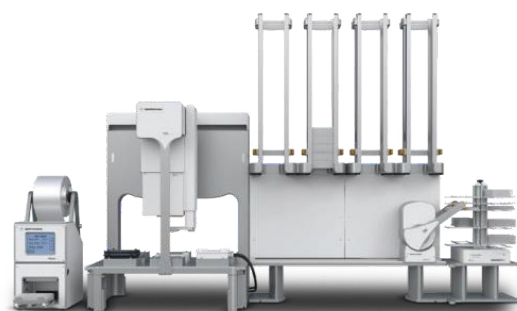


Agilent Magnis NGS (NGS A, Option A):

- High throughput and improved reproducibility with a small footprint
- Agilent Magnis Automated Liquid Handling platform
- Agilent 96 Channel Disposable Tip Head
- Agilent Magnis accessories for heating, cooling, shaking, and magnetic separation
- The Magnis System performs all library preparation and hybrid capture-based target

Agilent Magnis NGS (NGS A, Option B):

- High throughput and improved reproducibility with a small footprint
- Agilent Magnis Automated Liquid Handling platform
- Agilent 96 Channel Disposable Tip Head
- Agilent Magnis accessories for heating, cooling, shaking, and magnetic separation
- The Magnis System performs all library preparation and hybrid capture-based target



Part Number	Hands-On Time for complete Manual Prep workflow	Maximum Number of Samples Processed/Day	Hands-On Time for complete Automated Prep workflow	Maximum Number of Samples Processed/Day
Library Prep	375 min	8-24	25 min	96
Pre-Capture PCR	20 min	8-24	15 min	96
Hybridization Preparation	20 min	8-24	5 min	96
Capture	210 min	8-24	20 min	96
Post-Capture PCR	50 min	8-24	10 min	96
Total	675 min	16-48 per week	75 min	192 per week

Table 1. NGS Workstation drives 3.5x throughput with 4x less hands-on time

ORDERING INFORMATION

Part Number	Description
G5573AA	Magnis NGS, Option A
G5574AA	Magnis NGS, Option B Workstation Bundle includes Magnis Liquid Handling Platform with Gripper, 96LT Pipetting Head, BenchCel 4R Microplate Handler.

Agilent Oligo Pro II system



DESCRIPTION

Agilent OLIGO PRO II Automated Oligonucleotide Analyzer provides high resolution, accurate assessments of oligonucleotide purity with unsurpassed sample throughput via parallel capillary gel electrophoresis. CGE-UV is a standard method for assessing oligonucleotide purity, providing high separation resolution and direct detection of ssDNA and ssRNA without the sequence and size dependent variations encountered in mass spectrometry or fluorescence-based methods.

KEY FEATURES

- Capillary arrays with the option of 12, 24, or 96 capillaries are available. completely interchangeable, enabling seamless scalability.
- Fast Separations: Complete 12, 24, or 96 separations in about 1 hour.
- Streamlined operation, ready-to-use reagents, and dedicated software offer a complete solution for ensuring product quality.
- Wide Sizing Range: Achieve n-1 resolution through 60-mers.
- Direct Detection of Oligos: No dye labeling is needed. UV detection (CGE-UV) and separation technology dramatically improve laboratory throughput and efficiency while minimizing sample consumption and reducing operational costs.
- Simplified Report Generation: Advanced peak integration software and data reporting capabilities.

SELECTED APPLICATIONS

- Oligonucleotide Purity Assessments

MICROPLATE MANAGEMENT

Agilent micro plate management instruments are designed for speed, reliability, and ease-of-use. The small footprint of the instruments and ease of access makes them ideal for robotic integration.



Agilent Plate Loc Thermal Microplate Sealer has distinguished itself as a premier thermal sealer through its speed, small footprint, ease-of-use and dependability. A variety of seal types are available to meet your specific application needs.

Part Number: G5402A/G



Agilent Microplate Barcode labeler with an optional barcode scanner can custom label one or all four sides of a microplate with a variety of barcode symbologies and human-readable text.

Part Number: G5404B/G



Agilent Centrifuge is a robot-accessible automated centrifuge that provides both vibration and noise control in a small, low-maintenance package. An optional Centrifuge loader (pictured) is also available.

Part Number: G5405A/G




Agilent Microplate Seal Piercer pierces a wide variety of seals on 96 or 384-well microplates in only 4 seconds of cycle time.

Part Number: G5403A



Consumables

Agilent provides high Quality, verified, validated and application tested consumables- including seals tips, labels and more-for Agilent automated instruments to ensure optimum results in all your experiments.





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-  Life Sciences
-  Biotechnology
-  Pilot plants
-  Petroleum
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