

The Instrument and Accessories Catalog from Agilent

Life Sciences & Chemical Analysis

European Edition 2005



Agilent Technologies

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Instrument Catalog • Life Sciences & Chemical Analysis • European Edition 2005

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Agilent Technologies is a leading provider of life science and chemical analysis solutions. We offer systems for the acquisition and interpretation of genetic and chemical information – from sample handling, to analysis, data management and reporting – for a variety of industries including life sciences, pharmaceutical, drug testing, forensics, hydrocarbon processing, chemical and environmental.

Fast and Easy Ordering

Need something fast? Visit Agilent at **www.agilent.com/chem/store**.

Our online store is available 24 hours a day, 7 days a week.



It contains thousands of items... not just columns and supplies, but also select instruments, accessories, and software. You can even configure products online and, once you have selected the options you want, create a real-time quote or place your order using a purchase order or credit card.

Don't have purchasing authority? No problem. Put everything you want to buy in your cart then e-mail it to the appropriate person. They will receive a unique, one-time-use code to view your cart, make any necessary changes, and submit the order for you.

To take advantage of all these benefits of our Online Store, you must register on our site and activate advanced e-commerce functions.

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Answers to Technical Questions

With years of experience, our inside account managers and sales support engineers can assist you with technical support, configuration, and compatibility questions. Get advice, recommendations, and guidance from our friendly team of experts.



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Configure the system that is right for you



The Agilent 6890N GC is a versatile, reliable and proven instrument. It is ideal for R&D and QC laboratories in any industry that requires versatility and a wide range of capabilities. Built-in local area networking (LAN) allows you to share data across sites.

6890N GC

- Flexible Configurations
- Array of Inlets and Detectors
- Multi-valving
- Up to 100 Sample Capacity with Optional Agilent 7683 ALS
- Retention Time Locking Ready
- Electronic Pneumatic Control (EPC)
- LAN Connectivity



The Agilent 6850 Series II GC is small, rugged and easy-to-use. It is perfect for simple routine analyses in labs that require a single inlet/single detector solution and have limited bench space. Add the 6850 Automatic Liquid Sampler for increased sample capacity.

6850 Series II GC



- Small Footprint
- Expanded inlet offering: Split/Splitless, Packed, Cool on-column, PTV
- Expanded detector offering: TCD, FID, Micro-ECD, FPD
- 1 Gas Sampling Valve (GSV) or Liquid Sampling Valve (LSV)
- Up to 27 Sample Capacity with Optional Agilent 6850 ALS
- Retention Time Locking Ready
- Electronic Pneumatic Control (EPC)
- LAN Connectivity



For a broad range of applications when gas compositions must be measured, there's no better choice than Agilent's line of Micro GCs. Portable versions allow you to take the GC to the sample source. With Agilent Micro GCs, you get results in as little as 120 seconds rather than hours.

3000 Micro GC

- Portable
- Gas or LPG Analysis
- TCD Only
- 1-4 Channels
- Results in <120 Seconds
- Computer Controlled

Agilent's flagship GC

At the forefront of Agilent chemical analysis solutions is the 6890N network gas chromatograph. Let us assess your needs and design a solution to help you achieve better results. We will include instrumentation, accessories, supplies, services and any additional components required.



Performance

- Unsurpassed reproducibility – full electronic pneumatic control (EPC).
- Reproducible methods with retention time locking (RTL) software – same results, every location, every time!
- Proven, lifelong reliability – incorporates three decades of experience into the world's best-selling and most reliable GCs.

Productivity

- Fast, easy method set-up.
- Fast, accurate analyses.
- Greater productivity with fast oven warm-up and cool-down.
- Decreased calibration time.
- Efficient data handling for the Agilent 6890N GC system lets you display, calibrate and report data from up to four signals.
- Instrument control from anywhere through a local area network (LAN).

Regulatory Compliance

- ISO 9001.
- Declaration of Conformity.
- Declaration of System Validation.
- A record of all events.
- Assured method security – methods stored in a single, protected, uneditable format for assured integrity.
- System performance control – system suitability table for range limits on critical parameters.

Flexibility

- Modularity to meet changing needs – quickly change or upgrade GC configurations.
- Six independently controlled heated zones in addition to column oven – two inlet, two detector and two auxiliary.
- LAN communication to PC.

DESCRIPTION*

DESCRIPTION*	PRODUCT NO.
6890N Gas Chromatograph Mainframe	G1530N
Product Installation	G1530N #44K
Familiarization at Installation	G1530N #44L
Installation Qualification	G1530N #44U
Operational Qualification/Performance Verification	G1530N #44V
6890N Series Gas Chromatograph For custom configurations.*	G1540N
6890N GC for 5973 MSD	G1942N 

*Call your local Agilent sales representative or authorized Agilent distributor.

Select from a wide array of inlets and detectors from Page 4 & 5.

A broad range of inlets for liquid and gas samples.

Split/Splitless

For 0.32, 0.25, 0.20 and 0.10 mm capillary columns and 0.53 mm megabore columns.

Packed

For glass and metal 1/4 and 1/8 inch packed columns and 0.53 mm megabore capillary columns.

Cool-on-column

Temperature programmable cool-on-column for direct liquid injection minimizes discrimination during injection and separates low boiling point constituents selectively.

Valves

The reproducible way to introduce gaseous samples to the 6890N. Call for details.

Programmable Temperature Vaporizing (PTV)

Perform large volume injections for lower minimum detection limits and less thermal degradation of labile compounds.

Volatiles Interface

Provides trace level detection of pre-vaporized samples.



The Easiest Way to Change Inlet Liners!

Agilent's new Flip Top Inlet Sealing System is a device designed to allow the user to safely and reliably change an inlet liner in as little as 30 seconds without tools.

Available exclusively from Agilent, for Agilent GCs.

View the demonstration video at www.agilent.com/chem/fliptop













Online Ordering

Any products with the icon , can be ordered online at www.agilent.com/chem/store

Product Information

All inlets listed come standard with electronic pneumatic control (EPC) for greater stability, reproducibility and improved performance. Included are digital control of flow and pressure.

DESCRIPTION	PRODUCT NO.	6890N OPTION NO.
Split/Splitless 100 psi capillary injection port	G1552A 	G1530N #112
Split/Splitless 150 psi capillary injection port	G1560A 	G1530N #113
Packed column injection port	G1551A 	G1530N #102
Cool-on-column capillary injection port	G1554A 	G1530N #122
PTV inlet with septumless head, for use with liquid CO ₂	G2617A 	G1540N #130
PTV inlet with septum head, for use with liquid CO ₂	G2618A 	G1540N #131
PTV inlet with septumless head, for use with liquid N ₂	G2619A 	G1540N #132
PTV inlet with septum head, for use with liquid N ₂	G2620A 	G1540N #133
Volatiles interface	G2319A 	G1540N #142
Flip Top Inlet Sealing System	5188-2717 	

A comprehensive selection of detectors

Flame Ionization Detector (FID)

- Designed for maximum sensitivity and ease of use. The most popular and versatile detector.
- Flame that can be ignited from keyboard or automatically.
- Optimized for capillary and packed chromatography.

Thermal Conductivity Detector (TCD)

- Full digital dynamic range with optimum sensitivity for both packed and capillary column chromatography.
- Single-filament, single-column design.

Micro Electron Capture Detector (ECD)

- Micro ECD designed for better linearity, sensitivity and reduced susceptibility to contamination.
- Nickel plating on the inner surface of the lower cell body to reduce adsorption and degradation of sensitive compounds.
- Anode purge to extend cell lifetime.

Product Information

All detectors come standard with EPC for precise digital control of carrier and make-up gases for accuracy and reduced gas consumption.

Nitrogen Phosphorous Detector (NPD)

- Optimized selectivity and sensitivity for nitrogen and phosphorus containing compounds.
- Ceramic bead offers robust operation, better stability and longer bead lifetime.
- New thermal and mechanical designs provide more baseline stability.
- Bead is digitally set from the keyboard and is auto-correcting.

Flame Photometric Detector (FPD)



- Selective for sulfur or phosphorus containing organic compounds.
- Dual wavelength FPD can detect both sulfur and phosphorus in the same run.

Mass Selective Detector (MSD)

- Classical EI Spectra for legal defensibility.
- Unsurpassed sensitivity – picogram levels in full scan electron ionization and positive chemical ionization modes; femtogram levels in selected ion monitoring mode.
- Fast scan speed and a linear response over four orders of magnitude.
- Ease of use and low maintenance.
- Flexible instrument control and data communication.
- More information on the MSD available on page 10.

DESCRIPTION	PRODUCT NO.	6890N OPTION NO.
Flame Ionization Detector For packed and capillary use	G1561A	G1530N #210
Flame Ionization Detector Capillary optimized	G1562A	G1530N #211
Thermal Conductivity Detector	G1563A	G1530N #220
Micro Electron Capture Detector	G2397A	G1530N #231
Flame Photometric Detector	G2333A	G1540N #240
Dual Wavelength Flame Photometric Detector	G2334A	G1540N #241
Nitrogen Phosphorus Detector For packed and capillary use	G1575A	G1540N #250
Nitrogen Phosphorus Detector Capillary optimized	G1576A	G1540N #251



For a complete list of columns, supplies, and replacement parts, refer to the **Essential Chromatography Catalog** from Agilent.

You can order the catalog on
www.agilent.com/chem/supplies

Ideal combination of high performance, small size and ease of use at-line or in your laboratory

The Agilent 6850 Series II GC has all the capability and reliability you need for routine analyses plus the same proven performance of Agilent's flagship 6890N GC in a compact, single channel instrument.

High performance

- The same chromatographic performance as a 6890N GC.
- Meets EN 50082-2 Heavy Industrial Environment standards.

Ease of use

- Control panel with only six buttons – select one of five pre-stored analytical methods.
- Complete control and programmability of instrument set points via removable handheld controller and/or Agilent ChemStation and LAN interface.
- Safe and easy column changing and maintenance with lift-up oven lid design.
- Built-in service method for routine maintenance such as liner and septum changing.
- Diagnostic procedures guide the operator through leak and restriction tests, instrument tests and functional tests.

Small Size

- Less than 12 inches wide.
- Occupies less bench space.

Options

- Split/splitless, packed, PTV, or cool on-column inlet.
- FID, TCD, FPD, MicroECD or MSD.
- Integrator or ChemStation software for data handling.
- Autosampler – 8 or 27 samples.
- Gas or liquid sampling valve.



Product Information

All inlets and detectors listed come standard with electronic pneumatic control (EPC) for greater stability, reproducibility and improved performance. Included are digital control of flow and pressure.

DESCRIPTION	PRODUCT NO.	6850 OPTION NO.
6850 Series II Gas Chromatograph* Includes 6-button front panel with 2-line display, built-in interface for the 7683 autoinjector, RS-232, analog out.	G2630B G2630A	
Purged-packed inlet	G2651A	G2630B #102
Split/splitless capillary inlet	G2652A	G2630B #112
150 psi capillary split/splitless inlet	G3343B	G2630B #113
Cool-on-column inlet	G3344B	G2630B #122
Septumless PTV inlet	G3345B	G2630B #130
Septum head PTV inlet	G3346B	G2630B #131
FID	G2621A	G2630B #210
Micro ECD	G2397AB	G2630B #231
TCD	G2623A	G2630B #220
Single FPD	G3348A	G2630B #240
6850 Hand-held controller Provides method programming/editing and other functions. Detachable controller can be used with multiple 6850 GCs.	G2629A	
Fast GC Upgrade	G3350B	G2630B #002
Product Installation		G2630B #44K
Familiarization at Installation		G2630B #44L
Installation Qualification		G2630B #44U
Operational Qualification/Performance Verification		G2630B #44V

*Gas or Liquid Sampling Valves – contact Agilent sales representative or authorized Agilent distributor.

High speed, accurate measurements – when and where you need them

The Agilent 3000 is a powerful GC solution from the worldwide leader in chemical analysis. It provides fast, accurate, reliable analysis of your gas sample online – right at the sampling point.

Popular applications

- Natural gas
- Fuel cell
- Oil and gas exploration
- Chemical manufacturing
- Heating and cooling
- Refining
- Landfill gases
- Specialty chemicals
- Mine safety
- General purpose fixed gas



3000 Micro GC

This model exhibits superior performance, even under adverse conditions. It features an extended detector dynamic range, allowing simultaneous analysis of major and minor components.

3000 NGA (Natural Gas Analyzer) Micro GC

Designed for reliability and trouble-free service, the 3000 NGA is supplied complete with instrument, application specific software and calibration gases for natural gas analysis.

3000 RGA (Refinery Gas Analyzer) Micro GC

This model offers tremendous precision and a simple, cost-effective means to meet the demanding analytical reporting needs critical to your refining operations.

Fast Analysis

- Immediate results.
- Reduce your analyses times from hours...to seconds.

Reliable

- Injector valves have been proven reliable to over 2.5 million analyses.



Small Size

- Single channel unit – 6" x 10" x 4" and 12 lbs.
- Modular – can be configured with 1 to 4 channels.
- Portable for field analysis.



Online Ordering

Any products with the icon  can be ordered online at www.agilent.com/chem/store

DESCRIPTION	PRODUCT NO.
3000 Micro GC. Single-channel (optional 2nd channel is available) Heated gas chromatograph with thermal conductivity detector (TCD). Also includes installation and familiarization.	G2801A
3 or 4 channel Micro GC with TCD detector	G2802A
Natural Gas Analyzer Two-channel micro GC system designed to analyze thermal content of natural gas streams and report analytical results in accordance with GPA, ASTM, and ISO calculation standards. Analyzer includes instrument, software, natural gas calibration kit, installation and familiarization.	G2803A 
Refinery Gas Analyzer Four-channel Micro GC system designed to analyze calorific value of refinery gas streams and produce the necessary report. Analyzer includes pre-configured instrument, software, checkout gas calibration kit, installation and familiarization.	G2804A 
Portable Micro GC 1 or 2 channel portable micro GC with TCD detector and on-board carrier gas. Custom configurable from a variety of heated injectors, columns, on-board power, sample conditioners and software. Includes checkout gas standard, installation and familiarization.	G2805A

Autosamplers for 6890 and 5890 Series II

- The fastest injection speed in the industry – five times faster than any other ALS on the market.
- New solvent saving mode for 6890 and 6850.
- New controller for 6890A and 5890 SII.
- Eliminates needle discrimination.
- A choice of normal, on-column or multiple injections.
- Variable pre- and post-injection dwell times.
- Introduction of sample volumes from 0.1 µL to 50 µL or more (with multiple injections).
- Variable sampling depths for ambient headspace or micro liquid-liquid extraction.
- Two wash solvents for pre- and post-injection needle rinsing, virtually eliminating sample carryover.
- A 100-sample tray for the 6890N that mounts away from the GC oven to prevent sample degradation or condensation.
- The capability to use external standards, simplifying quantitation.
- Simultaneous, dual-injection capability.
- A modular design, with options for increased automation.
- Fast and easy transfer of sampler modules from one GC to another.
- Optional bar code reader.



DESCRIPTION	PRODUCT NO.
6890N, 6890 Plus and 6890A	
7683B Autoinjector module (8 sample turrets)	G2913A
7683 Autosampler tray module for 6890N and Plus	G2614A
7683/6890 ALS interface board (6890Plus Only)	G2612A
7683 ALS controller (6890A only, serial numbers <US00020000)	G2912A
Bar code reader	G2615A
5890 Series II	
Autoinjector Bundle Includes Autoinjector, G2912A controller and 5890II Autoinjector bracket .	G2910A
7683 Autosampler tray module for 5890 Series II	G2916A
ALS Tray upgrade kit (5890II to 6890 upgrade)	G2917A
Bar code reader	G2615A

Autosamplers for 6850

- Sampler capacity up to 27 2-mL vials or up to 22 4-mL vials using an optional turret accessory.
- Modular
- Variable sampling depth, which provides access to small samples.
- Highly reliable syringe alignment.
- Rugged construction and proven technology for maximum uptime.
- Compatible with all 6850 GCs, all 6850 hand-held controllers, all releases of Agilent Cerity chemical QA/QC software and current Agilent ChemStation software (version A.06 or later).



DESCRIPTION	PRODUCT NO.
For 6850	
6850 Automatic Liquid Sampler Can hold up to 27 2-mL vials or 22 4-mL vials using the optional turret accessory (G2880-64010).	G2880A
7683B Autoinjector module 8 sample turret.	G2913A

G1888A Headspace Sampler

Looking for volatile analytes? Headspace sampling can simplify your work

Headspace sampling allows you to introduce volatile compounds automatically, from virtually any sample matrix, directly into a GC or GC/MS. Agilent's G1888A network headspace sampler features an inert sample pathway for superior chemical performance without analyte degradation or loss. Its high sample capacity and increased sensitivity are designed to provide excellent performance for a wide range of analyses. The total solution, from sampling to data analysis to reporting, gives you high confidence in your results.



- 70 position sample tray.
- 12 positions in the heating oven.
- Extended temperature range.
- Multiple Headspace Extraction Modes.

DESCRIPTION	PRODUCT NO.
Agilent Network Headspace Sampler Includes remote cable for 6890/6850/6820, LAN cable and RS-232 cable.	G1888A
Integrated Headspace Control Software for 16 bit Chemstation Integrated software for control of G1888A or G1289B/G1290B Headspace sampler by Agilent GC ChemStation.	G2922AA
Integrated Headspace Control Software for 32-bit Chemstation	G2924AA
Integrated Headspace Control for GC/MS (A.01.02 or later)	G2923AA
EPC Headspace interface kit to a 6890 EPC inlet	G1940A
7964E Economy Headspace sampler (12 samples)	G1883A
Support table for Headspace above MSD	G1287A

Purge and Trap

Purchase the Velocity XPT Sample Concentrator and Aquatek 70 Vial Autosampler directly from Agilent

- Inert sample pathway.
- Temperature uniformity.
- Improved sample drain system.
- Efficient trap bake cycle.
- Choice of automatic samplers for unattended sequential analysis.

Keypad or PC control

- Directly enter operating setpoints via removable keypad or via PC with Purge and Trap control software.

DESCRIPTION	PRODUCT NO.
Tekmar Velocity XPT™ Sample Concentrator with Accelerated Purge and Trap Technology Includes Silcosteel® sample pathway, heated sample mount, DryFlow™ Moisture system, Forward Focusing Chamber, On-trap injection port, 5 ml frit sample sparger, Vocab 3000 trap. Includes VOC Teklink and Pocket Teklink software.	TMR-8900
Tekmar AquaTek 70 Liquid Autosampler Includes TekLink PC Control SW, 70 vial drinking and wastewater capacity, standard injection capability, 5 ml loop, and two 35 position sample trays. Requires purge and trap concentrator.	TMR-AQUA70
Tekmar Solatek 72 Autosampler Includes one 20ml Standard Injection System, 5ml frit sparger. Options available.	TMR-SOLA72



For a complete list of columns, supplies and replacement parts for GC and GC/MS, refer to the **Essential Chromatography Catalog** from Agilent.

You can order the catalog on
www.agilent.com/chem/supplies

A revolutionary approach to performance and productivity – The Agilent 5975 inert MSD

New GC/MSD instrument offers improved efficiencies for greater productivity

The 5975 inert MSD is all about reliability and improved performance. Built on the same platform as the popular Agilent 5973 series MSD – the best selling GC/MS of all time – the Agilent 5975 inert MSD is a big step forward in reliable performance that leverages new and smarter hardware and software technologies. There have been many improvements in the 5975 inert MSD.

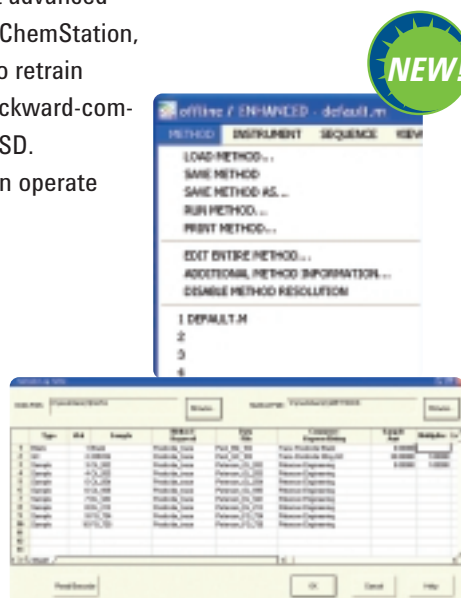
- A redesigned mass analyzer
- A more efficient vacuum system
- New intelligent chemical ionization



Improved MSD Productivity ChemStation with eMethods will transform the way you work

The 5975 inert MSD is controlled by the most advanced GC/MS software ever, the MSD Productivity ChemStation, which has been improved without the need to retrain existing users. In addition, the software is backward-compatible with all versions of the 5973 series MSD. As a result, all 5973 and 5975 instruments can operate under the same MSD ChemStation platform.

- eMethods – a brand new concept for developing and distributing application methods.
- Synchronous SIM/Scan mode of operation
- Automation of EI with CI ion source – combined EI/CI
- Integrated Agilent Headspace Sampler control
- Software control of the 6850 GC



Features and Benefits of the 5975 inert MSD

Inert ion source

- Superior performance for active compounds.

True hyperbolic quadrupole

- Maximum transmission and resolution.

Thermally stable quartz quadrupole

- Proprietary quadrupole can be heated up to 200°C for long-term mass axis stability.

Quick-replace electron multiplier horn

- Off-axis high-energy dynode (HED) detector ensures long life and ultimate sensitivity.

0.10 amu mass axis stability over 48 hours

- Ensures longer lasting tune and calibration stability.

Auto CI

- Automatic EPC reagent gas adjustment and CI tuning.

Fast scanning capability

- Scan rates up to 10,000 amu/sec.

Electron impact (EI) ionization with standard CI ion source

- Obtain EI and CI spectra from the same source.

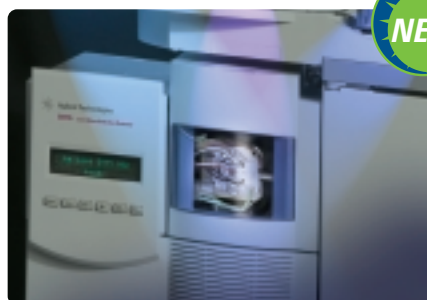
Synchronous SIM/Scan mode

- Run Synchronous Selected Ion Monitoring and full scan.

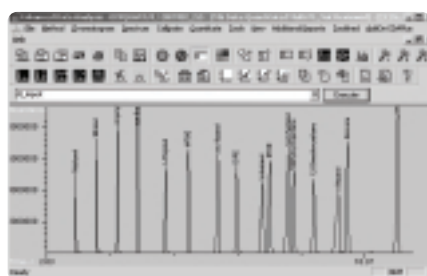
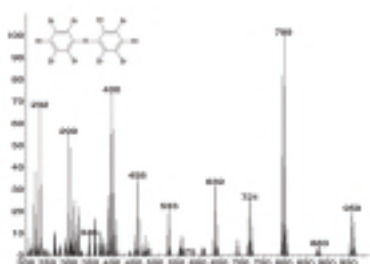
1050 m/z mass range

- Extends application space for high mass compounds.

5975 Mass Selective Detector



NEW!



Online Ordering

Any products with the icon , can be ordered online at www.agilent.com/chem/store

DESCRIPTION

PRODUCT NO.

5975 Mass Selective Detector

MSD Bundles

Include a 5975 Inert MSD, high-performance MSD ChemStation, LAN hub and cables. Does not include a 6890 or 6850 GC. EI bundles do not include an ion gauge or gauge controller.

5975 Inert MSD/DS Standard-turbo EI bundle

includes G3171A MSD

G3242A

5975 Inert MSD/DS Performance-turbo EI bundle

includes G3172A MSD; can be upgraded to both PCI and NCI

G3243A

5975 Inert XL MSD/DS Performance-turbo CI bundle

(includes G3174A MSD and ion gauge controller G3397A)

G3245A

MSD-Ready 6890 GC Bundle

does not include autosampler or autosampler interface board

G1942N

A la Carte MSDs

Do not include gas chromatograph, PC, printer, LAN hub, MSD Productivity ChemStation, or ion gauge controller.

5975 Inert MSD Standard-turbo EI mainframe

can not be upgraded to CI

G3171A

5975 Inert MSD Performance-turbo EI mainframe

can be upgraded to PCI and NCI

G3172A

5975 Inert XL MSD Performance-turbo EI/PCI/NCI mainframe

G3174A

Accessories

Ion gauge controller

G3397A

MS ChemStations and Mass Spectral Libraries

MSD Productivity ChemStations

MSD Productivity ChemStation Software

G1701DA

MSD Data Analysis Software

G1710DA

Optional Software

Deconvolution Reporting Software for the MSD Productivity ChemStation

G1716AA

Headspace Control by MSD ChemStation

G2923AA

MSD Security ChemStation

G1732AA

MSD Productivity ChemStation Bundles

Include PC, monitor, printer, LAN communications, LAN cable, LAN hub, and Windows XP.

Data Analysis Bundle

G1717DA

High-performance MSD ChemStation

G1729DA

MSD Libraries

All require a PC with CD-ROM drive.

NIST Chemical Structures Library

G1036A

NIST Mass Spectral Search Program

G1043A

NIST05 MS Library Bundle

G1033A

NIST MS Library Bundle Upgrade

G1041A

Wiley Library, 7th Edition

G1035B

Stan Pesticide MS Library

G1038A

Pfleger/Maurer/Weber MS Drug Library, 3rd Edition

G1039C

RTL Pesticide MS Library

G1049A

Agilent 5973 Family of GC/MS Systems

Reliable GC/MS performance to accommodate any application.

Features and Benefits

High Sensitivity

5973N

- EI-SCAN mode, 1 pg of octafluoronaphthalene (OFN) with a signal to noise ratio (s/n) of 20:1

5973 Inert

- EI-SCAN mode, 1 pg of octafluoronaphthalene (OFN) with a signal to noise ratio (s/n) of 60:1
- EI-SIM mode, 20 fg OFN, 10:1 s/n
- NCI-SCAN mode, 1 fg OFN, 10:1 s/n
- PCI-SIM mode, 1 pg BZP, 10:1 s/n
- PCI-SCAN mode, 100 pg BZP, 75:1 s/n

Benefits

- High mass response provided by high energy dynode
- Enhanced resolution and sensitivity with hyperbolic gold quadrupole
- Ultimate flexibility with positive and negative chemical ionization modes
- Increased performance with Inert Source



Ion Source ▲



DESCRIPTION

PRODUCT NO.

5973 Inert MSD Performance Turbo Pump PCI/NCI System Includes MSD, ChemStation, GC/MSD software, PC, printer, and ion gauge controller. For use with 6890N GC.	G1789A
5973 Inert MSD Performance Turbo Pump EI System Includes MSD, ChemStation, GC/MSD software, PC and printer. For use with 6890N GC.	G1779A
5973 Inert MSD Standard Turbo EI System Includes MSD, ChemStation, GC/MSD software, and PC, printer. For use with 6890N GC.	G1778A
5973N MSD-Diffusion EI System Includes MSD, ChemStation, GC/MSD software, PC and printer.	G1777A
6850/5973N GC/MS System Includes 6850GC, 5973N MSD Diff-Pump EI Mainframe, standard ChemStation Bundle. Not included: 59864B ion controller.	G2570A
Ion Gauge Controller	59864B
PCI/NCI Upgrade for 5973N MSD Upgrades all turbo-pump equipped 5973N MSD with Chemical ionization.	G1086A
5973A Performance/LAN upgrade	G1088A
5973N/Inert Performance Upgrade	G1088B
Inert source assembly for 5973A/N MSD	G2591A
Extended Linearity Kit for 5973A/N MSD	G2860A
Extended Linearity Kit for 5973 Inert MSD	G2860B
6890N GC for 5973N MSD Includes 100 psi split/splitless inlet and interface to 5973N MSD.	G1942N
Deconvolution Reporting Software for the MSD Productivity ChemStation	G1716AA
MSD Data Analysis Software Includes 5 user configurable modes: standard, enhanced, environmental, petrochemical, and drug analysis.	G1710DA
GC MSD Productivity ChemStation and the GC MSD Security ChemStation	G1732AA

Our Deconvolution Reporting Software

(MSD-DRS) is an application for target compound analyses that combines results from the Agilent GC/MSD ChemStation, the NIST Automated Mass spectral Deconvolution and Identification Software, and the NIST 2002 Mass Spectral Search Program into one easy-to-read report!

Benefits:

- Significant time (cost) savings
- Greater accuracy
- Easy-to-use

Our 5973 MSD Performance Electronics

extend the MSD capabilities for fast GC/MS in both full scan and SIM.

Benefits:

- Scan rates up to 10,000 amu/sec – compatible with fast GC/MS
- Two-fold increase in data points for SIM – fast GC/MS in SIM
- More data points – better peak integration

Our proprietary inert ion source is

constructed of a solid inert material, so there is no need for an inert coating. Coatings can wear away over time from routine cleaning, which can ultimately compromise your data.

Benefits:

- Improved sensitivity for active compounds
- Permanent inertness for the most demanding applications

A range of high performance ICP-MS systems to surpass your trace metal analysis needs

Agilent's benchtop 7500 Series ICP-MS comprises the standard 7500a, and the 7500ce and 7500cs featuring Octopole Reaction System (ORS) technology. Each system delivers the highest levels of performance for trace metals analysis, while retaining ease of use, flexibility and reliability through automation and excellence in design.



ICP-MS Technology

- 7500 Series is the most successful ICP-MS instrument ever with 1000 units produced within the first 5 years of production
- Unique Octopole Reaction System (ORS) enables ultratrace analysis in the most complex sample types.
- System flexibility is extended through leading LC and GC interfaces for ICP-MS and the widest range of sampling accessories.

Opening up new application possibilities for ICP-MS

The range of upgrades, sampling peripherals and optional software further enhance productivity and open up new application possibilities:

- **Octopole Reaction System (ORS)**— All 7500 Series instruments can be upgraded on-site with the latest ORS technology.
- **I-AS** — covered integrated autosampler requires minimum wash in and wash out times for maximum productivity.

- **Integrated Sample Introduction System (ISIS)** — automated sample introduction and preparation for increased sample throughput.
- **GC-ICP-MS Interface** — for the seamless separation and elemental detection of volatile species.
- **Plasma Chromatographic Software** — integral and powerful component of Agilent's liquid and gas chromatography-ICP-MS speciation measurement kits.

All 7500 platforms offer high performance features including:

- **7500a:** fully automated benchtop ICP-MS. Entry level system, featuring high sensitivity and unique nine orders dynamic range.
- **7500ce:** unique ORS He collision mode for reliable, predictable removal of unknown matrix elements even in high matrix sample types such as waste water, soils, food and biomedical.
- **7500cs:** ultra high sensitivity for the ultimate in detection power, featuring the ORS for removal of matrix interferences in the toughest semiconductor sample types.

DESCRIPTION	PRODUCT NO.
7500a ICP-MS Mainframe ICP-MS mainframe equipped with high solids nebulizer and Ni interface.	G3271A
7500ce ICP-MS Mainframe ICP-MS mainframe equipped with MicroMist nebulizer, Ni interface and Octopole Reaction System.	G3272A
7500cs ICP-MS Mainframe ICP-MS mainframe equipped with Micro Flow nebulizer, Ni interface and Octopole Reaction System.	G3273A
Integrated Sample Introduction System (ISIS) Expands the application range of the 7500 Series.	G3148A
Integrated Autosampler Rotary type autosampler with cover for ultratrace analysis.	G3160A
Intelligent Sequencing Software Adds Intelligent Sequencing software module.	G3143A
7500 Series ChemStation Includes ICP-MS operating software, PC, monitor and printer.	G3150A

All backed by excellent applications and service support.



For a complete list of ICP-MS replacement parts and supplies for the 7500 ICP-MS, refer to the **Essential Chromatography Catalog** from Agilent.

You can order the catalog on
www.agilent.com/chem/supplies

An evolution in 1100 LC/MS series technology – Quad • Trap • TOF



The Agilent LC/MS TOF combines the power of accurate mass measurements with ease of use. An accurate mass measurement can provide molecular weight and elemental composition for confident identification.

TOF Technology



- 3 ppm mass accuracy
- Excellent resolution
- Wide in-scan dynamic range
- Fast Scanning
- Multiple Ionization choices



The Agilent 1100 Series LC/MSD Trap is an ion trap system that provides the MS/MS and MSⁿ data needed to solve challenging research questions faster and with more confidence. Multiple stages of MS deliver the information needed to characterize compounds and elucidate structures.

Ion Trap Technology

- High-capacity ion trap
- Automate, data dependent MS/MS and MSⁿ
- Excellent Full Scan Sensitivity
- Wide range of ionization choices
- Powerful software tools



The Agilent 1100 Series LC/MSD offers the sensitivity, selectivity and depth of molecular information provided by mass spectrometry in a rugged, reliable, easy-to-use benchtop system.

Quadrupole Technology

- Outstanding sensitivity
- Ion polarity, fragmentor voltage, and SIM/scan switching
- Multiple ionization choices including simultaneous ESI and APCI
- Rugged, reliable, and easy-to-use

Confident compound identification and confirmation

The Agilent LC/MSD TOF has wide applicability, from unambiguous identification of small molecules to identity confirmation for recombinant proteins. It offers the power of accurate mass measurements and outstanding resolution in a sensitive, reliable, and easy-to-use package.

Features and Benefits

- 3 ppm mass accuracy for identification of small molecules and more confident identification of large molecules.
- Wide in-scan dynamic range enhances usability and facilitates unattended, walk-up access.
- Enhanced fast scanning for fast chromatography and high throughput.
- Wide range of ionization choices including dual-nebulizer sources for continuous introduction of reference mass compounds.
- Application-specific, TOF-centric software for applications from empirical formula confirmation to identity confirmation for recombinant proteins.



DESCRIPTION	PRODUCT NO.
LC/MSD TOF System Includes dual-nebulizer ESI source, automated reference mass delivery, ion optics, TOF mass analyzer, vacuum system & electronics, PC, monitor, printer and LC-MSD TOF system SW, 24hrs installation & familiarization also included. Available options.	G3250AA
TOF Protein Confirmation Software Includes both automated and interactive deconvolution of intact proteins of 1000 kDa or less.	G3314AA
LC/MSD TOF APCI Source Includes APCI spray chamber, corona discharge needle, nebulizer, LC tubing, fittings and test calibration kit. A syringe pump must be supplied by customer.	G3252A
Spectrum Mill MS Proteomics Workbench Full-featured protein database search software package.	G2721AA
Nanospray Source Includes illuminated nanospray chamber with viewing port and 25X microscope, set of 20 spray needles, test sample and sample introduction kit.	G1982B

Refer to page 18 for source options



Receive your **FREE Agilent LC/MS TOF Wall Poster**.
Reference part number 5989-1981EN.

Identify target compounds faster and with more confidence

The Agilent 1100 Series LC/MSD Trap is a high-performance ion trap mass spectrometer that gives scientists the MS/MS and MSⁿ data they need to solve challenging research questions faster and with more confidence.

The most sensitive trap available with excellent full-scan sensitivity.

Features and Benefits

LC/MSD Trap XCT System

- New generation extra-capacity ion Trap for x 10 extra sensitivity
- Extra fast Scan mode 26000 *m/z* per second
- Higher resolution
- Mixed mode scanning ideal for proteomics experiments
- Use with Agilent NanoLC and Agilent Spectrum Mill MS Proteomics Workbench software for ultimate proteomics MS solution

LC/MSD Trap SL capabilities:

- 2,200 *m/z* standard and 4,000 *m/z* extended mass range
- Fast, automated determination of charge state for intelligent MS/MS
- High-speed positive/negative ion mode polarity switching (~0.5 seconds)

LC/MSD Trap VL capabilities:

- Good MS/MS scan sensitivity
- Automatic MS/MS
- Positive/negative mode polarity switching



DESCRIPTION

PRODUCT NO.

LC/MSD Trap XCT Plus System

G2453AA

Includes high-performance 1100 Series LC/MSD Trap module, Positive/Negative switching, API-Electrospray source, PC, printer and LC/MSD ChemStation software for data acquisition and data analysis.

LC/MSD Trap SL System

G2440DA

Includes 1100 Series LC/MSD Trap module, API-Electrospray source, PC, printer and LC/MSD ChemStation software for data acquisition and data analysis.

LC/MSD Trap VL System

G2440CA

Includes 1100 Series LC/MSD Trap module, API-Electrospray source, PC, printer and LC/MSD ChemStation software for data acquisition and data analysis.

LC/MSD Trap Deconvolution and Bioanalysis Software

G1981AA

For deconvolution of multiply charged ion series and software for protein and peptide data evaluation.

LC/MSD Trap ChemStation Data Analysis Software

G2450AA

For off-line data evaluation.

Nanoflow XCT Plus Proteomics Solution

G2456AA

Includes nanoLC pump, micro well-plate sampler, column switching module, control module, orthogonal nanospray source, LC/MSD trap XCT Plus system, PC, monitor and LaserJet printer

Mass Spec Flow Accessories

MSD Active Splitter for LC/MSD Systems

G1968-64101

Capillary Flow ESI Sprayer

G1385A

Nanospray Ion Source

G1982B

Spectrum Mill MS Proteomics Workbench

G2721AA

Full-featured protein database search software package

Refer to page 18 for source options

An LC/MSD for the chromatographer

The 1100 Series LC/MSD provides the molecular weight, structural information and sensitivity needed to identify compounds, check the purity of chromatographic peaks and quantitate trace level samples in complex matrices – all in a rugged, reliable, easy-to-use benchtop system.

MSD Quadrupole Technology

Two models of the popular LC/MSD set new standards for performance and value for quadrupole LC/MS systems.

LC/MSD SL

For chromatographers and mass spectrometrists who need the utmost in sensitivity, the LC/MSD SL makes analyses in the very low picogram range possible.

LC/MSD VL

The economical LC/MSD VL lowers the barrier to putting the power of Agilent's LC/MS technology in every laboratory.



MSD Quad Features and Benefits

- **Orthogonal nebulization**, and high-capacity drying gas for better, more stable desolvation and ionization.
- **Scan-to-scan ion polarity**, fragmentor voltage, and SIM/scan switching for maximum information from each peak and each run
- **Multiple ionization choices** including the revolutionary multimode source for simultaneous ESI and APCI.



- **Integrated solutions** are available for high-throughput and walk-up access environments.
- **Complete software solutions** for compliance with 21 CFR Part 11 and related regulatory requirements.
- **Total control** of the LC and MSD with a single software platform.

Product Information

Quiet Cover

Agilent has developed a solution to quiet your LC/MS rough pump. More details at www.agilent.com/chem/quietcover Part number G3199A



DESCRIPTION	PRODUCT NO.
LC/MSD API-Electrospray SL System 1100 Series LC/MSD module, electrospray source, PC/Printer and LC/MSD ChemStation software for data acquisition and data analysis.	G3218BA
LC/MSD API-Electrospray VL System Includes 1100 Series LC/MSD module, electrospray source, PC/Printer, and LC/MSD ChemStation software for data acquisition and data analysis.	G3218AA
LC/MSD ChemStation Software 32 Bit For system control, acquisition & eval. of chromatographic and spectral data from one 1100 LC/MSD. Includes DAD & MS spectral analysis capability. Includes data browser.	G2710BA
1100 LC/MSD Data Analysis Software	G2730BA
Software to add 1100 LC/MSD to an existing 3D HPLC ChemStation	G2715BA
1100 LC/MSD Deconvolution and Bioanalysis Software	G2720AA
MSD Easy Access Software for LC/MSD	G2725AA

Refer to page 18 for source options

Wide range of ionization techniques and sources for maximum flexibility

Patented orthogonal spray ion source design provides exceptional sensitivity and reproducibility over a wide range of LC operating conditions.



ESI – Electrospray Ionization

- For large biomolecules and many smaller compounds— especially more polar compounds.
- The orthogonal spray orientation keeps the capillary cleaner.
- Dual-nebulizer version available for LC/MSD TOF.



APPI – Atmospheric Pressure Photoionization

- Relative low ionization energy causes minimal fragmentation resulting in easy identification of molecular weights.
- Can ionize compounds that are difficult to ionize using other API techniques.



APCI – Atmospheric Pressure Chemical Ionization

- For small, thermally stable molecules and less polar compounds that do not respond as well to electrospray.
- Rugged and low maintenance.



Multimode Source

- Revolutionary multimode source can acquire electrospray and APCI spectra simultaneously for maximum throughput without loss of sensitivity.
- Simultaneous ESI and APCI in a single run.

Specialized Sources available for proteomics applications.



PDF MALDI– Pulsed Dynamic Focusing Matrix-Assisted Laser Desorption/Ionization

- Improved Sensitivity and consistency of MS pulses with new PDF technology.
- Fast, sensitive, high-throughput ionization for proteins and polymers.
- Provides clean, searchable MS/MS spectra at attomole levels.
- Powerful combination when paired with the Agilent LC/MSD Trap or TOF.



Nanospray

- Ultralow flow rates provide maximum MS sensitivity.
- Dual-nebulizer version available for LC/MSD TOF.

DESCRIPTION

PRODUCT NO.

APCI Source Includes APCI spray chamber, corona discharge needle, nebulizer, APCI vaporizer and test calibration kit.

G1947A

Electrospray Source Includes ESI spray chamber, nebulizer and test calibration kit.

G1948A

APPI Source Includes APPI spray chamber, power supply, communication cable, power cord, nebulizer, vaporizer, photoionization lamp and test calibration.

G1971A

PDF-MALDI Source High performance MALDI source includes two 96 well sample plates, laser, XY positioning stage & display camera.

G1974A

Nanospray Source Includes illuminated nanospray chamber with viewing port and 25X microscope, set of 20 spray needles, test sample and sample introduction kit.

G1982B

Multimode Source

G1978A

Capillary LC/MS Nebulizer Assembly

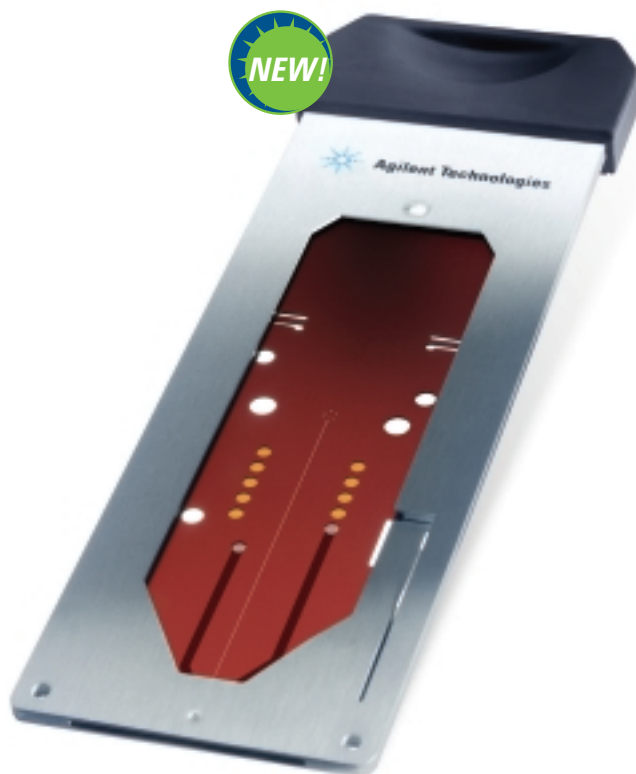
G1385A

Includes replacement SS needle, instructions Needle holder and tools for replacement. Connecting capillary between LC and MS nebulizer.

HPLC-Chip/MS Technology for Agilent Ion Trap Mass Spectrometer

Agilent HPLC-Chip/MS technology

- Designed for nano electrospray LC/MS applications such as protein identification for proteomic experiments and small molecule applications for pharmaceutical development, toxicology, food safety and homeland security.
- Pre-column, analytical column and electrospray tip integrated on a single inert chip smaller than a credit card.
- Plug and play approach with Agilent HPLC-Chip Cube MS interface.



Agilent's HPLC-Chip is the first microfluidic chip-based device that can carry out nanoflow electrospray LC/MS.

The centerpiece of Agilent's new HPLC-Chip technology is a reusable microfluidic polymer chip. Smaller than a credit card, the HPLC-chip seamlessly integrates the sample enrichment and separation - columns of a nanoflow LC system with the intricate connections and electrospray tip used in electrospray mass spectrometry directly on a polymer chip. The technology eliminates 50% of the traditional fittings and connections typically required in

nanoflow LC/MS system, dramatically reducing the possibility of leaks and dead volumes and significantly improving ease of use, sensitivity, reliability and repeatability during analysis.

The second component of the HPLC-Chip technology is the HPLC-Chip Cube MS interface. A chip is inserted into the interface, which mounts on an Agilent mass spectrometer. The design configuration guarantees that the electrospray tip is in the optimal position for mass analysis when the chip is inserted. Replacement of the chip is simple and can be completed in

a few seconds. The HPLC-Chip Cube interface is available as a standard module within the Agilent 1100 Series LC system.

It also includes a electrospray tip that interfaces efficiently with a mass spectrometer, allowing separated compounds such as peptides to then be identified and quantified via mass spectrometry.

DESCRIPTION



HPLC-Chip/MS Interface for Agilent Ion Trap mass spectrometer

PRODUCT NO.

G4240A

Agilent 1100 Series Nanoflow LC and LC/MS System.

The heart of the Nanoflow LC is the pumping system optimized for nanoliter to microliter flow rates. The nanoflow pump features revolutionary electronic flow control (EFC) with active feedback for unprecedented stability. The Agilent Nanoflow LC is THE choice for LC/MS.



Features and Benefits

- Unsurpassed low-flow performance and stability
- Automated sample cleanup, enrichment, and 2D HPLC
- High-efficiency nanoflow separations
- Flow path designed to maximize and maintain separation efficiency

The Agilent 1100 Series nanoflow LC system includes the following modules:

- Agilent 1100 Series nanoflow pump with Electronic Flow Control offers reliable and reproducible results, combined with high instrument uptime.
- Agilent 1100 Series micro vacuum degasser has a very low internal volume per channel (1 mL) for fast changeover of mobile phases and quick purge.
- Agilent 1100 Series micro well-plate sampler enables the user to handle nano to microliter injection volumes and offers the flexibility to inject from various sample containers (e.g. vials and well-plates).
- Agilent 1100 Series handheld controller for convenient local status monitoring.

Superb Sensitivity with the Nanoflow LC/MS System

Fed by ultrastable nanoliter LC flow, the Agilent 1100 LC/MSD Trap provide low femtomole or better LC/MS/MS sensitivity. The fully integrated system provides unsurpassed efficiency with faster characterization. Agilent has used its experience and leadership in both Liquid Chromatography and Mass Spectrometry to create an unprecedented combination of sensitivity, reliability and automation.



For a complete list of replacement parts, columns and supplies, refer to the **Essential Chromatography Catalog** from Agilent.

You can order the catalog on www.agilent.com/chem/supplies

DESCRIPTION

Nanoflow XCT Plus Proteomics Solution

Includes nanoLC pump, micro well-plate sampler, column switching module, control module, orthogonal nanospray source, LC/MSD trap XCT Plus system, PC, monitor and LaserJet printer.

PRODUCT NO.

G2456AA

Spectrum Mill MS Proteomics Workbench

Full-featured informatics software package.

G2721AA

The new standard for value and productivity

As the industry leader in HPLC technology, Agilent Technologies is charging forward, setting new standards for performance and value. For over 30 years the company has been leading the pack with advanced technology and breakthrough innovations that set it apart from the competition. Over 50,000 Agilent LC Systems – a total of 300,000 modules – have been installed worldwide. No wonder the Agilent 1100 Series LC, with its reputation for reliability and robustness, is widely considered the industry workhorse.

Superior HPLC modules for best chromatography results

The Agilent 1100 Series keeps your productivity high and your operating costs low. You get high qualitative accuracy, excellent quantitative precision, unmatched ruggedness and reliability for maximum uptime and fast results.

Industry-specific total solutions that save time and money

To help you run applications quickly and successfully, we offer everything needed for successful analysis results – from reliable hardware and software and long-lasting columns to industry-specific applications.

Saves time

This system is designed for quick start-up, automated validation, ease of use, fast chromatography and automated data transfer to save you time without demanding more space or resources.

Wide array of stackable modules:

- Isocratic, Binary, Quaternary, Nano, Capillary, and Prep pumps.
- Vial and well-plate samples for capillary, analytical, and prep work.
- Variable Multi-wavelength, Diode array, Refractive Index, Fluorescence, and Mass selective detectors.
- Analytical and Prep scale Fraction Collector.

Automated data management for compliance with 21 CFR Part 11

- Consistent links between method, raw data and results ensure data integrity, security and traceability.
- Store raw and meta data automatically.
- Retrieve data of interest with an integrated query function.



Innovation through evolution



Explore over 30 years of HPLC
Innovations from Agilent
www.agilent.com/chem/1100

Win the race.....with a racehorse

- Compatible with Agilent's RRT columns.
- Able to boost speed.
- Enhance efficiency.
- Boost productivity.

Get your results FAST!



Agilent 1100 Series
isocratic pump



Agilent 1100 Series
binary pump



Agilent 1100 Series
quaternary pump



Agilent 1100 Series
capillary pump



Agilent 1100 Series
nanoflow pump



Agilent 1100 Series
preparative pump

Choose a Pumping System

DESCRIPTION	PRODUCT NO.
1100 Isocratic Pump Includes isocratic pump, solvent cabinet, solvent bottle and CAN cable.	G1310A
1100 Binary Pump Includes binary pump, solvent cabinet, 2 solvent bottles and CAN cable.	G1312A
Continuous seal wash option for use with highly concentrated salt solution to extend seal lifetime.	G1312A #030
Solvent Selection Option Includes solvent selection valve and 2 solvent bottles.	G1312A #031
1100 Quaternary Pump with Degasser Includes quaternary pump, solvent cabinet, 4 solvent bottles, vacuum degasser and CAN cable.	G1354A
Continuous seal wash option for use with highly concentrated salt solutions to extend seal lifetime	G1354A #030
1100 Preparative Pump includes preparative pump, solvent cabinet, 2 L solvent bottle, purge valve, 1-m CAN cable and seal wash with peristaltic pump.	G1361A
1100 Preparative Pump Gradient Extension Includes preparative pump, gradient kit, 2 L solvent bottle, purge valve, 0.5-m CAN cable and seal wash with peristaltic pump.	G1391A
1100 Capillary LC System Includes micro vacuum degasser, capillary pump, thermostatted micro ALS, thermostatted column compartment, diode array with 500 ml flow cell, LAN card and 3D ChemStation.	G1388A
1100 NanoFlow LC system for MS Includes nanoflow pump, microdegasser, micro well plate sampler, handheld controller and accessories.	G2229A

Choose an online vacuum degasser

DESCRIPTION	PRODUCT NO.
1100 Micro Degasser Includes 4 channel vacuum degasser.	G1379A
1100 Standard Degasser	G1322A

Choose a thermostatted column compartment

DESCRIPTION	PRODUCT NO.
Thermostatted Column Compartment Includes column compartment with two heat exchangers for solvent pre-heating, column identification module and CAN cable.	G1316A
Column Switching Option	G1316A #055
Micro Column Switching Option	G1316A #056

Analytical to Prep – Vial Sampling



Agilent 1100 Series
standard autosampler and
thermostatted version



Agilent 1100 Series
micro-autosampler and
thermostatted version



Agilent 1100 Series
dual-loop autosampler PS



Agilent 1100 Series
preparative autosampler and
thermostatted version

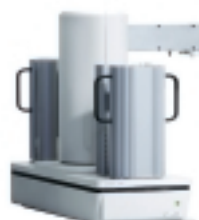
Analytical to Prep – Well-Plate and Vial Sampling



Agilent 1100 Series micro-
well-plate autosampler and
thermostatted version.



Agilent 1100 Series
well-plate autosampler and
thermostatted version



Agilent 1100 Series
well-plate handler with
automation interface

Choose a Manual or Automated Injection System

DESCRIPTION	PRODUCT NO.
Analytical to Prep – Vial Sampling	
1100 Autosampler Includes autosampler with 100 vial (2 ml) tray, 40 vial (2 ml) tray, 15 vial (6 ml) tray and CAN cable. Injection volume range from 0.1 to 100 microliters.	G1313A
1100 Thermostatted Autosampler Includes cooled autosampler with 100 vial (2 ml) tray, 40 vial (2 ml) tray, 15 vial (6 ml) tray and CAN cable. Injection volume range from 0.1 to 100 microliters.	G1327A
1100 Cooled Autosampler Upgrade Kit Upgrades an existing 1100 autosampler (G1313A) to allow sample cooling.	G1395A
1100 Manual Injector Includes Rheodyne 7725 manual injection valve, 20 µl sample loop and mounting stand.	G1328B
Manual prep injection valve kit Manual prep injection valve kit, SS (3725i-038) with position sensing, 10 ml loop, 25 ml syringe, ring mounting bracket, start cable, SS connecting capillaries, 0.5 mm id, 40 cm and 60 cm	5065-9022
Agilent 1100 Series Preparative Autosampler Includes preparative autosampler with 100-vial (2 ml) thermostatted tray, 15 x 6 ml half tray (2x), MBB Rheodyne injection valve, Multidraw kit with 500 and 1500 µl capillaries and 0.5-m CAN cable. (Thermostatted version available)	G2260A
Analytical to Prep – Well-Plate and Vial Sampling	
1100 Well-Plate Autosampler Includes well-plate autosampler with well-plate tray for two well-plates and 10 x 2 ml vials, Rheodyne injection valve and 0.5-m CAN cable. (Thermostatted version available)	G1367A
1100 Micro Well-Plate Sampler Includes micro well-plate autosampler with well-plate tray, electrically actuated Rheodyne micro injection valve and 0.5-m CAN cable. (Thermostatted version available)	G1377A
Agilent 1100 series sample capacity extension Includes 1100 8.5" well-plate handler, well plate rack 8.5", 1100 automation interface and one vial plate for 54 x 2 ml vials. Includes installation and familiarization.	G2257A



Agilent 1100 Series
variable wavelength detector



Agilent 1100 Series
multi-wavelength detector

80 Hz



Agilent 1100 Series
diode-array detector SL
8 x faster!



Agilent 1100 Series
diode-array detector



Agilent 1100 Series
fluorescence detector



Agilent 1100 Series
refractive index detector

Choose a Detector

DESCRIPTION	PRODUCT NO.
1100 Variable Wavelength Detector Includes variable wavelength detector with deuterium lamp, Lan interface and CAN cable. No flow cell included.	G1314A
Standard Flow Cell Stainless steel flow cell, 10 mm path length, 14 microliter volume, pressure tight to 40 bar.	G1314A #018
Semi-micro Flow Cell Stainless steel flow cell, 6 mm path length, 5 microliter volume, pressure tight to 120 bar.	G1314A #016
Micro Flow Cell Stainless steel flow cell, 5 mm path length, 1 microliter volume, pressure tight to 40 bar.	G1314A #020
High Pressure Flow Cell Stainless steel flow cell, 10 mm path length, 14 microliter volume, pressure tight to 400 bar.	G1314A #021
1100 Multiple Wavelength Detector Includes diode-array based detector with long-life deuterium and tungsten lamp. CAN cable.	G1365B
1100 Diode Array Detector SL Includes diode-array detector SL with long-life deuterium and tungsten lamp, CAN cable.	G1315C
1100 Diode Array Detector Includes diode-array detector with long-life deuterium and tungsten lamp, CAN cable.	G1315B
Flow cells for 1100 DAD SL (G1315C) and 1100 DAD (G1315B)	
Standard flow cell, 10-mm path length, 13- μ l volume, pressure tight to 120 bar	#018
Semi-micro flow cell, 6-mm path length, 5- μ l volume, pressure tight to 120 bar	#016
High pressure micro flow cell, 6-mm path length 1.7- μ l volume, pressure tight to 400 bar	#020
500-nanoliter flow cell, 10-mm path length, pressure tight to 50 bar	#014
80-nanoliter flow cell, 6-mm path length, pressure tight to 50 bar	#012
Preparative flow cell, 3-mm path length, 120 bar SST	#022
Preparative flow cell, 0.3-mm path length, 20 bar, quartz	#024
Preparative flow cell, 0.06-mm path length, 20 bar, quartz	#026
1100 Fluorescence Detector For multi-wavelength detection, online acquisition of excitation and emission spectra. Includes 8 microliter flow cell.	G1321A
Fluorescence Detector Flow-thru Cuvette For off-line measurement, quartz cell, 8 microliter volume, pressure tight to 20 bar, 1 ml syringe, wide bore capillaries.	G1321A #025
1100 Refractive Index Detector Includes flow cell and solvent recycle valve, pressure tight to 7 bar.	G1362A

Product Information



To order additional or
replacement flow cells click on
www.agilent.com/chem/store

Liquid Chromatography Modules



Agilent 1100 Series
fraction collector (PS)




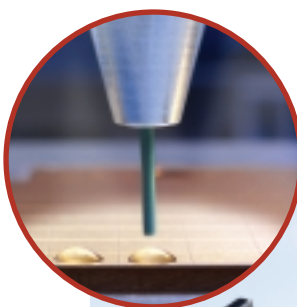
Agilent 1100 Series
fraction collector (AS)



Agilent 1100 Series
fraction collector/spotter

Choose a Fraction Collector

DESCRIPTION	PRODUCT NO.
Agilent 1100 Series Fraction Collector (Prep Scale) High flow version with short needle. For deep well plates and vials from 48 mm up to 100 mm in height. Delay Sensor included	G1364B
Agilent 1100 Series Fraction Collector (Analytical Scale) For flow rates up to 10 ml/min, allows collection in containers up to 75 mm in height. Includes delay sensor.	G1364C
1100 Series Micro Fraction Collector Includes wellplate tray, capillaries: 25 µm, 50 µm and 100 µm, and accessory kit.	G1364D
Thermostat for 1100 samplers/collectors (WPS & ALS) Includes Peltier device to control the temperature of the 1100 autosamplers/ fraction collectors	G1330B 



The Agilent 1100 Series LC micro collection/spotting system is an ideal tool for single or multidimensional chromatographic separation of complex peptide and protein mixtures for subsequent analysis by MALDI and/or ESI mass spectrometry.



Online Ordering

Any products with the icon , can be ordered online at www.agilent.com/chem/store

A scalable HPLC for ultimate reliability at every turn! ... let us help you configure the best solution

Agilent Technologies has led the development of many LC innovations making the 1100 Series an industry standard in HPLC. It is a scalable, open platform with the flexibility to adapt to novel technologies and evolving user needs. The platform can be configured for a variety of applications, from cutting-edge proteomics research to QA/QC work and from measuring attomoles of peptides to purifying grams of sample.

Innovation through evolution

Explore over 30 years of
HPLC Innovations from Agilent
www.agilent.com/chem/1100

Agilent 1100 Series Workhorse Analytical LC System

Excellent performance, unprecedented flexibility and reliability that has become the industry standard. The 1100 System's modular approach provides you the ultimate choice for your laboratory.

Agilent 1100 Series High-Throughput LC System

Agilent offers complete solutions for high sample throughput. A variety of well-plate samplers are available in standard and thermostatted versions. The samplers add maximum flexibility and fast injection cycles to the system and are considerably faster than a standard Agilent 1100 Series autosampler.

Agilent 1100 LC Spotting/Collection System

The Agilent 1100 Series LC micro collection/spotting system is an ideal tool for single or multidimensional chromatographic separation of complex peptide and protein mixtures for subsequent analysis by MALDI and/or ESI mass spectrometry.

Agilent 1100 Series Capillary LC System

The Agilent 1100 Series Capillary LC system is designed for increased sensitivity and for analyzing limited sample volumes typically found in the biopharmaceutical research environment. It uses a unique pump technology that optimizes the system for capillary LC, offering a high level of sensitivity and reproducibility.

Agilent 1100 Series GPC-SEC Analysis System

The Agilent 1100 Series GPC system offers easy and reliable polymer characterization. The precision of its isocratic solvent delivery system provides the constant, stable flow rate that is essential to maintain high resolution. The high flow precision and the excellent temperature stability of the Agilent 1100 Series thermostatted column compartment ensure the highest accuracy and precision of molecular weight determinations.

Agilent 1100 Series Purification System

The Agilent 1100 Series system has been expanded to include preparative capabilities offering well-plate technology. It is an ideal solution for high throughput HPLC analyses and purification. The Agilent 1100 Series preparative pump forms the basis of Agilent's purification system.

The addition of an Agilent 1100 Series LC/MSD provides for molecular weight confirmation, mass-based fraction collection (up to 16 different m/z values per sample), sample purification and purity verification.

LC/MS for Proteomics

Agilent Technologies is applying over 30 years of experience and excellence in analytical chemistry to the challenges of proteomics, with targeted solutions for applications ranging from purification to sizing to identification, making even the most difficult protein measurement routine.

Proteomics holds both great promise and great challenges. Great promise for the understanding of complex biological systems and the products and progress that can come from such understanding. Great challenges of isolating, identifying, characterizing, and quantifying tiny amounts of almost limitless varieties of proteins.

Agilent 1100 Series Nanoflow System

The Nanoflow system uses a unique solvent delivery technology optimized for nanoliter-per-minute flows and features EFC (Electronic Flow Control) with active feedback. This provides extremely stable and accurate flow, resulting in stable ion generation, which in turn provides higher MS sensitivity.

Product Information

Agilent 1100 Series Solution Guides

- Food Solutions with HPLC
- Environmental Solutions with HPLC
- Polymer and Hydrocarbon Processing Solutions with HPLC
- Pharmaceutical Applications with HPLC
- Optimizing the Agilent 1100 Series LC system
- Solutions for Sample Purification – Agilent 1100 Series Purification Systems

Solutions for a broad range of applications in a variety of industries

Agilent Technologies offers a complete portfolio of laboratory informatics, including content management and chromatography data systems (CDS), for research, development and QA/QC laboratories. Agilent laboratory informatics solutions equip these labs with the tools they need to optimize their workflow, ultimately driving down costs and increasing productivity. They also enable laboratories to meet quality and regulatory guidelines, such as 21 CFR Part 11. Agilent laboratory informatics solutions are based on open-systems architecture, ensuring that they can be integrated seamlessly into expanding IT infrastructures.

Laboratory Informatics News

Agilent unveils an expanded informatics software portfolio

www.agilent.com/chem/scisw



Agilent Cerity ECM

The Agilent Cerity enterprise content manager (ECM) is the umbrella system that encompasses all Agilent's application specific software solutions, including the Cerity and ChemStation Plus families of CDS products. Cerity ECM stores all electronic records in a central location – regardless of their format. Cerity ECM transfers key information from proprietary formats to a generic format, facilitating review and management of data through a central browser interface, independent of the initial acquisition format of the data. Cerity ECM is the answer to data storage, data organization and compliance problems.

Cerity ECM is fully web-based and scalable from single laptop solutions to enterprise system implementations for many users. Its functionality combines the solution to long-term archiving needs with the power of a document management system. It provides full versioning and audit-trails for all human readable documents and reports, including the MS Office applications Word and Excel. It also provides a special plug-in that enables Excel calculations to run in a compliant fashion with restricted access and template protection, as well as revision control and audit trails of the calculation templates.



Agilent Cerity CDS

The Agilent Cerity CDS family of products consists of lab-specific applications that model the way analysts work.

The Cerity family currently offers dedicated applications for pharmaceutical QA/QC and for chemical QA/QC laboratories. Cerity provides sophisticated, yet easy-to-use capabilities for all QA/QC tasks, from sample entry to data review, from approval to final reporting, as well as full control of equipment from other manufacturers.

Standard functions include:

- Full scalability from single-user/multi-instrument configurations to scalable, distributed, client-server systems.
- QA/QC workflow support for chemical or pharmaceutical QA/QC.
- Pharmaceutical: Implements the technical controls mandated by 21 CFR Part 11.
- Chemical: Simple, sample-centric user interface for plant operators and technicians.
- Custom calculations and custom reports that eliminate manual transcriptions.
- Level-4 instrument control for Agilent GC and LC.
- Multi-vendor instrument control.



Agilent ChemStation Plus CDS

The Agilent ChemStation Plus CDS family of products is ideal for research and development environments, providing modular software components for instrument control, data acquisition and data management. The ChemStation base software handles all applications, including LC, LC/MS, GC, GC/MS, CE, CE/MS and A/D systems. The system's capabilities can be extended with add-on software modules.

- Centralized data organization and storage.
- Custom calculations.
- Remote control and monitoring.
- Regulatory and quality compliance.
- Validation of analytical methods.
- Control of specific application solutions.

Cerity Enterprise Content Manager

Cerity ECM is a unique tool for managing all of your electronic records in a central repository. It holds your data independent of any proprietary formats and extracts an unlimited number of key values from each individual file.

**Laboratory
Informatics
News**

Agilent unveils an
expanded informatics software
portfolio

www.agilent.com/chem/scisw

Cerity for Pharmaceutical QA/QC

Cerity Pharmaceutical has been designed to meet the specific requirements of QA/QC labs in the pharmaceutical industry. It provides centralized management of chromatography data for labs with a few to few hundred instruments and users. Cerity helps labs to reduce operating and validation costs by adapting to the lab's workflow through automation of routine calculations, and an electronic result approval process.

- Provides Level-4 instrument control for Agilent LC and GC instruments (including Agilent 1100, 6890, 6850, 5890, 1090).
- Full control of Waters Alliance and Shimadzu 10-VP LC through the unique Cerity Generic Instrument Control (GIC) concept.

Product Information



View an Agilent Cerity
Demonstration online at
www.agilent.com/chem/cerityecm

DESCRIPTION	PRODUCT NO.
Cerity ECM	
Cerity ECM Server Software	G4004AA
Cerity ECM Basic Client	G4015AA
Cerity ECM Scalable Vector Graphics Plug-in for PDF	G4016AA
Cerity ECM E-Signature Plug-in	G4017AA
Cerity ECM Desktop Integration	G4018AA
Cerity ECM named user client. Includes Basic Web client with chromatographic viewer, desktop integration scalable vector graphics plug-in to PDF and e-signature plug-in	G4010AA
Cerity ECM Print Service	G4012AA
Cerity ECM Scheduled Import Service for automated upload to server. May require multiple copies for large systems.	G4080AA
Cerity ECM Business Process Management software	G4005AA

DESCRIPTION	PRODUCT NO.
Cerity for Pharmaceutical QA/QC	
Cerity Client/Server Software	G4001AA
License for Agilent 1100 Series HPLC Control	G4061AA
License for 6890GC Control	G4036A
License for Waters Alliance HPLC Control	G4062AA
Cerity-P GMP Professional PC Bundle includes PC, Cerity-P standalone and Cerity GMP license	G4020AA
Cerity-P Client PC Bundle includes PC, one Cerity-P user and one Cerity GMP module license	G4022AA
Cerity-P GMP Module License enables strict auditing and e-signatures	G4030AA
Cerity-P Spectral Acquisition and Evaluation License for one instrument with diode array or fluorescence detector.	G4031AA
Cerity-P Spectra Module License 5-pack	G4032AA
Cerity-P 1100 HPLC instrument control license	G4061AA
Cerity-P 1100 HPLC instrument control license 5-pack	G4061AA #005
Cerity-P 1100 HPLC instrument control license 10-pack	G4061AA #010
Cerity-P Waters Alliance LC instrument control license	G4062AA
Cerity-P 6890/6850 GC instrument control license	G4063AA
Cerity-P 6890/6850 GC instrument control license 5-pack	G4063AA #005
Cerity-P 6890/6850 GC instrument control license 10-pack	G4063AA #010
Cerity-P 35900E Dual Channel Interface instrument control license	G4064AA
Cerity-P 35900E instrument control license 5-pack	G4064AA #005
Cerity-P 35900E instrument control license 10-pack	G4064AA #010
Cerity-P Generic Instrument Control framework license to enable instrument Cerity Generic Instrument Control framework. Requires separate VSIA license.	G4065AA
Cerity-P GIC license 5-pack	G4066AA
Cerity-P Shimadzu LC10A VP VSIA instrument control license	G4067AA
Cerity-P Agilent 5890 VSIA instrument control license	G4068AA
Cerity-P Agilent 1090 HPLC instrument control license	G4069AA
Cerity-P Agilent 1090 HPLC control license 5-pack	G4070AA
Cerity-P Headspace Control License for one G1888A, G1289B or G1290B headspace sampler	G2926AA

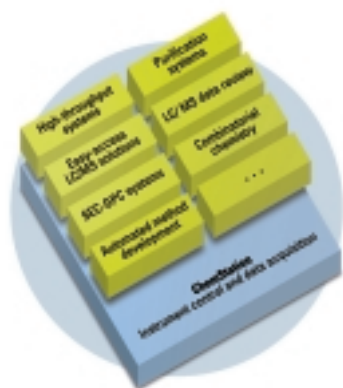
Cerity for Chemical QA/QC

Sample-centered software, amazingly easy to use

The Cerity Networked Data System for Chemical QA/QC is ideal for non-regulated environments. The software centers on the sample rather than the analytical instrument. This makes running samples and analyzing results fast and easy. Once the system is configured, entering the sample name automatically selects the method and instrument. Running a sample requires only one or two mouse clicks.

DESCRIPTION	PRODUCT NO.
Cerity for Chemical QA/QC	
Single Instrument Cerity for Chemical QA/QC	G2085AA
Single 4890D or 5890-II Cerity for Chemical QA/QC (not available in the US)	G2095AA
Additional instrument to add to an existing Cerity Chemical system. Maximum of 7 additional instruments.	G2082AA
Software Upgrade from G2822AA or G2095AA to G2085AA	G2083AA
Cerity for Chemical QA/QC PC Bundle includes PC with CD-RW, 19-inch monitor, and laser printer	G1879AA
License to use single instrument Cerity on an additional computer	G2385AA
Cerity BTU/Caloric Software. For Calculations and reporting for natural gas analysis conforming to GPA, ASTM, ISO Standards	G2814AA
Cerity NDS for 3000 Series micro GC, M200, or Quad	G2822AA

ChemStation Plus Chromatography Data Systems







Laboratory Informatics News

Agilent unveils an expanded informatics software portfolio





www.agilent.com/chem/scisw

DESCRIPTION	16 BIT PRODUCT NO.	32 BIT PRODUCT NO.
GC		
ChemStation software for one GC	G2070AA	G2070BA
ChemStation software for additional GC	G2071AA	G2071BA
GC ChemStation Software License to execute software on another PC. Includes license and user information only.	G2075AA	G2075BA
A/D		
ChemStation software for A/D	G2072AA	G2072BA
ChemStation software for additional A/D	G2073AA	G2073BA
A/D ChemStation Software License to execute software on another PC. Includes license and user info only.	G2077AA	G2077BA
HPLC		
HPLC 2D ChemStation software	G2170AA	G2170BA
ChemStation software for additional 2D LC	G2171AA	G2171BA
HPLC 2D license to execute software on another PC. includes license and user information only.	G2175AA	G2175BA
HPLC ChemStation Spectral SW Module. Adds capability to evaluate DAD and FLD spectra to an HPLC 2D ChemStation.	G2180AA	G2180BA
HPLC 3D Spectral Module license to execute on another PC. Includes the license and the user information only.	G2185AA	G2185BA
CE		
ChemStation software for CE Systems	G1601A	G1601BA
ChemStation software for additional CE	G2172AA	G2172BA
CE license to execute software on another PC. includes license and user information only.	G2205AA	G2205BA
CE-MSD Add on software. Adds MS control	G2201AA	G2201BA
Data Analysis Only		
ChemStation Software Data Analysis. Only used for evaluation of GC, 2D LC (no diode array or MSD) and A/D data only.	G2090AA	G2090BA
HPLC ChemStation Data Analysis Software. Includes data evaluation only of chromatographic and LC spectral data.	G2190AA	G2190BA
ChemStation Bundles		
Single Instrument GC ChemStation	G1875AA	G1875BA
Single Instrument LC 2D ChemStation	G1317A	G1317BA
Single Instrument LC 3D ChemStation	G1319A	G1319BA
Single Instrument A/D ChemStation	G2112AA	G2112BA
Single Instrument CE ChemStation	G1602A	G1602BA

ChemStation Plus Add-on Software modules

DESCRIPTION	PRODUCT NO.
ChemStore Server Software	G1410A
ChemStore C/S Database Client Software. Includes MS Access based database for data organization, review, cross sample reporting and charting. For ChemStations for LC, LC/MSD, GC, CE, CE-MSD and A/D.	G2181BA 
ChemStore C/S Review Client License ChemStore C/S Review Client License. Includes one online license, one offline license, one LC-MSD ChemStation Data Analysis S/W and user information	G2186BA
ChemAccess Server Software. Adds remote status, monitoring and control of ChemStation and instruments	G1494A
ChemAccess 5 User Client Software	G1495A
ChemStation Plus Security Pack. Adds the secure ChemStore relational database software module to the ChemStation Plus SW for A/D, GC, CE, LC and CE/LC-MSD. Supports 21 CFR part 11.	G2183AA 
License to use Security Pack Software on another PC Includes manual, license and media. Supports 21 CFR part 11.	G2187AA 
Method Validation Pack. For automated method validation according to USP, EP, ICH and FDA guidelines including 21 CFR Part 11.	G2184AA 

ChemStation Accessories

DESCRIPTION	PRODUCT NO.
8-port LAN Hub. Allows up to eight devices to interface to a local laboratory LAN. Includes an 8-meter LAN cable.	G2402A 
6890 LAN Communications Interface. Provides capability to connect a host computer over LAN. Includes ThinLan (coax) and 10/100BaseT (twisted pair) connectors, and cables.	G2335A 
LAN Communications Interface For 1100 Series HPLC, 35900 A/D, 6850 GC, 6890 GC and 8453 Series UV/VIS.	G1369A 
Crossover Ethertwist Cable. To connect ChemStation to a networked instrument. Includes 10 ft. crossover wired ethertwist patch cable, category 5.	5183-4649 



Online Ordering

Any products with the icon ,
can be ordered online at
www.agilent.com/chem/store

Laboratory Informatics News

Agilent unveils an
expanded informatics software
portfolio
www.agilent.com/chem/scisw

A variety of systems to meet your application needs

The Agilent 8453 is the most productive UV-Visible spectroscopy system available. You'll get more work done in less time with its combination of ease of use, fast spectral acquisition, fast data evaluation, report generation and automation. A full range of sampling accessories (including sipper, autosampler and multicell transport) are software controlled to further enhance automation.



The Diode Array Advantages

- Fast Scanning – Acquires full spectra in as little as 1.5 seconds.
- Impressive specifications with less than 0.005% stray light.
- High Sensitivity with fewer optical surfaces and better signal handling.
- Virtually absolute wavelength reproducibility, no moving parts – no mechanical error.

Dissolution Testing System

- Maximum flexibility and productivity.
- Scalable sampling from manual off-line through fully automated online with up to four baths.
- Integration into fully automated robotic systems.
- Customized calculations and result reports.
- Built-in tools for compliance with GLP requirements.

DESCRIPTION	PRODUCT NO.
8453 UV-Visible Value System Includes spectrophotometer, PC, CD-ROM, monitor, software, and printer.	G1812AA
8453 Pharmaceutical UV-Visible System Includes spectrophotometer, PC, CD-ROM, monitor, general purpose, advanced and Security Pack software and printer.	G1815AA
8453 Dissolution System Complete systems including IQ and OQ/PV. Includes spectrophotometer, dissolution software and sampling systems.	
Accessories	
Peltier Temperature Controller	89090A
External Temperature Sensor	89090A #200
Eight-Position Multicell Transport	G1120A
Automated Sipper System for 8453	89068D
XY Autosampler	G1811A
Thermostatable Cell Holder	89054A
Cell Stirring Module	89055A
8453 Lamps	
Deuterium lamp assembly	2140-0605
Tungsten lamp assembly	G1103-60001

Product Information



To order flow cells and additional consumables, please refer to www.agilent.com/chem/store

DESCRIPTION	PRODUCT NO.
General Purpose UV-Visible ChemStation Software Includes full control of 8453 and 8452 spectrophotometers and accessories, standard tasks, verification and diagnostics mode.	G1115AA
Advanced UV-Visible Software Adds method development tools, advanced data analysis functions, multicomponent analysis, confirmation analysis, macro programming.	G1116AA
Biochemical Analysis Software Adds biochemical application features such as single and multicell kinetics, nucleic acid analysis and thermal denaturation studies.	G1117AA
Dissolution Software Adds off-line and online dissolution testing capabilities to the general purpose software.	G1118AA
UV-Visible ChemStation Software Upgrade	G1102AA
Security Pack for UV-Visible ChemStation Modifies advanced and dissolution testing software to support the requirements for electronic records and signatures (21 CFR Part 11).	G1813AA

Solutions for a broad range of applications in a variety of industries

Agilent Technologies pioneered the development of this technique with the Agilent Capillary Electrophoresis system. Innovations include diode array detection in CE, the extended light-path capillaries, automated fraction collection, capillary electrochromatography (CEC), the high sensitivity detection cell and fully integrated solutions for CE/MS.



Efficient and quick analyses

- High sensitivity diode-array detector.
- Extended Light Path capillaries and high sensitivity cell for increased sensitivity.
- Automated spectral library for compound identification and confirmation.
- Easy-to-use, quick change capillary cartridges.
- Sample tray with random access of 48 positions.
- Off-line buffer replenishment, so sample tray positions do not have to be sacrificed.
- Peltier temperature control of capillary for reproducible migration time and quantitative analysis.
- CEC-ready (Capillary Electrochromatography) with high pressure.
- Fully integrated for CE/MS.

CE supplies and solutions for:

- Chiral Methods Development
- Double stranded DNA/PCR
- Inorganic Anions
- Organic Acids
- Oligonucleotides

CE Validation Packages

- Instrument Qualification
- Operational Qualification/Performance Verification
- Combined CE and Capillary electrochromatography (CEC)
- CE/MS
- Automated Fraction Collection
- High Pressure Flushing
- New Integrated Software
- Iso-electric Focusing (IEF)

DESCRIPTION	PRODUCT NO.
3D Capillary Electrophoresis System Includes 3D Capillary Electrophoresis instrument, PC, monitor, software and printer.	G1602A
High Sensitivity Cell	G1602A #021
ChemStation Software for CE Systems Includes Capillary Electrophoresis instrument control, data acquisition, data analysis, reporting.	G1601A
CE MS ChemStation Add-on Software	G2201AA
3DCE ChemStation Software Upgrade For customers upgrading from an existing revision of G1601A to the latest revision (G1601A).	G1645A
Additional CE Instrument Control SW Module Adds control, data acquisition of and evaluation from one CE instrument to existing LC (G2170AA), GC (G2070AA), A/D (G2072AA) or CE (G1601A) ChemStation.	G2172AA

5100 Automated Lab-on-a-Chip Platform (ALP)

The Agilent 5100 Automated Lab-on-a-Chip Platform (ALP) is Agilent's extension of microfluidic Lab-on-a-Chip technology into high throughput and high resolution sizing and quantitation of DNA and proteins. The 5100 ALP replaces current slab gel techniques such as Agarose gels or SDS-PAGE.



Automated & Unattended Sample Handling

- Standard well-plate formats (96 and 394)
- Unattended operation
- Reproducibility
- High throughput

Fast & Reliable Sample Analysis

- Fast analysis cycles
- Internal standards in each sample
- User and location independent
- Standardized automated assays

Reproducible & Customizable Data Analysis

- Digital data
- Handling of large data sets in Oracle™ database
- Easy data comparison
- Filter and query mechanisms

"The potential advantages of this unit to our operation is immense. We believe that the unit will allow us to have much greater control over our quality control procedures, providing higher quality data over our traditional methodologies."

— Neil Winegarden
Ontario Cancer Institute,
Toronto

DESCRIPTION	PRODUCT NO.
5100 ALP single laser system 5100 ALP single laser system for DNA applications, including base PC and Expert-HT SW, Printer, Services and accessory kit.	G3001A
5100 ALP dual laser system 5100 ALP dual laser system for Protein and DNA applications, including base PC and Expert-HT SW, Printer, Services and accessory kit.	G3002A
5100 ALP single laser instrument 5100 ALP single laser instrument as additional instrument with services for existing G3001A or G3002A for DNA solution. Any additional ALP on a G3001A or G3002A require a G3020A.	G3010A
5100 ALP dual laser instrument 5100 ALP dual laser instrument as additional instrument with services for existing G3001A or G3002A for protein solution. Any additional ALP on a G3001A or G3002A require a G3020A.	G3011A
5100 acquisition PC with SW 5100 acquisition PC with SW for adding one ALP instrument to existing G3001A or G3002A. Including desktop PC, ALP Expert-HT software with one user license, monitor, color printer, service.	G3020A
Select your assay consumables	
DNA 1000 HT-4 Chip DNA 1000 HT-4 Chip for high throughput sizing and quantitation of dsDNA from 25 to 1000 bp for 5100 ALP. Kit includes the 4 capillary DNA chip.	G3010-87300
DNA 1000 HT-4 Reagent Kit DNA 1000 HT-4 Reagent Kit for high throughput sizing and quantitation of dsDNA from 25 to 1000 bp for 5100 ALP. Includes the reagents for about 3000 samples and documentation.	G3010-68750
Protein 200 HT-2 Chip Protein 200 HT-2 Chip for high throughput sizing and quantitation of proteins from 15 to 220 kDa for 5100 ALP. Kit includes the 2-capillary protein chip.	G3011-87300
Protein 200 HT-2 Reagent Kit Protein 200 HT-2 Reagent Kit for high throughput sizing and quantitation of proteins from 15 to 220 kDa for 5100 ALP. Includes the reagents for about 2000 samples and documentation.	G3011-68750
ALP consumables kit ALP consumables kit consisting of a set of ALP Pipette Tips, Heat Sealer Foil, Capillary Basins, Reagents Troughs to supplement ALP Reagent- and Chip-kits.	G3009-68700

The Agilent 2100 bioanalyzer automated analysis system

Launched as the first commercially available product based on Lab-on-a-Chip technology, the Agilent 2100 Bioanalyzer improves DNA, RNA and Protein analysis through accurate and reproducible sizing and quantitation.

No more running, staining and destaining gels.

No more gel drying, scanning and photography.

No more manual data analysis.

- Rapid and accurate measurement of RNA quality with the RNA Integrity Number (RIN)
- Accurate and reproducible sizing and quantitation of DNA and Proteins
- Convenience of integrated simple flow cytometry analysis
- High sensitivity with only a small amount of sample.
- Significant time savings – 10 to 12 samples in 30 minutes.
- Easy comparison or sharing of sample data.
- Reduced use and waste of hazardous chemicals.



DESCRIPTION	PRODUCT NO.
Agilent 2100 Bioanalyzer Desktop Bundle Includes PC hardware, printer, software, Agilent 2100 bioanalyzer instrument	G2940CA
Agilent 2100 Bioanalyzer Laptop System	G2943CA
Electrophoresis Set	G2947CA
Flow Cytometry Set	G2948CA
Expert Software Upgrade	G2946CA

Kits are available at www.chem.agilent.com/labonachip

Prepare chip...

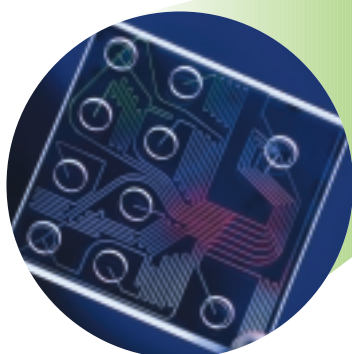
...Run analysis...

...Check results.



Online Ordering

Any products with the icon , can be ordered online at www.agilent.com/chem/store



Select your LabChip® Kit

DESCRIPTION	PRODUCT NO.
RNA 6000 Pico LabChip Kit	5065-4473
RNA 6000 Nano LabChip Kit	5065-4476
DNA 500 LabChip Kit	5064-8284
DNA 1000 LabChip Kit	5065-4449
DNA 7500 LabChip Kit	5064-8230
DNA 12000 LabChip Kit	5064-8231
Protein 50 Labchip Kit	5065-4484
Protein 200 Plus LabChip Kit	5065-4480
Cell Fluorescence LabChip Kit	5065-4488
Cell Fluorescence Checkout Kit	5065-4486
Test Chip Bundle Used to aid in troubleshooting and diagnosis of instrument associated problems. Includes 5 leak current test chips, 1 autofocus test chip, 1 electrode/diode test chip.	G2938-68100
16-Pin Bayonet Cartridge Removable cartridge with easy to clean and maintain detachable pin set. Pin set layout identical with 16-pin cartridge.	5065-4413
Chip Priming Station Chip priming station used to load gel matrix into chip with a syringe and syringe clip provided with each LabChip kit.	5065-4401
Gasket Kit of Chip Priming Station	G2938-68716
RS 232 Connector Cable	G2938-81605

One platform for your entire gene expression workflow!

- Use an RNA kit for RNA isolation
- Use a DNA kit for Gene expressions analysis
- Use a Cell Fluorescence kit for Protein expression
- Use a Protein kit for Protein purification

Each LabChip kit includes 25 chips, electrode cleaning chip, syringe, reagents, supplies, and reagent kit guide.

Information Update: The needs of quality control labs are addressed by delivering IQ&OQ/PV support services and 'Declarations of Conformity' for all components, prerequisites for work in regulated environments and the upcoming release of the 21 CFR part 11 compliance software.



LabChip® is a registered trademark of Caliper Life Sciences, Inc. in US and other countries.

Microarrays with SurePrint Technology

The content you need, when you need it

Agilent SurePrint technology delivers consistent, high quality *in situ* synthesized oligo microarrays with the most up-to-date content available. Agilent catalog and custom microarrays are easily accessible and can be run on most 1" x 3" glass slide scanners.



Whole genome screening on a single 1" x 3" glass slide printed microarray.

Catalog 60-mer Oligo Microarray Kits

www.agilent.com/chem/catalog

Custom Oligo Microarrays Made Easy

www.agilent.com/chem/custom

- Flexible formats (44K, 22K, 11K features on 1" x 3" glass slides)
- Revise designs when you need to, without being locked into expensive designs or masks
- Pick probes from Agilent validated or collaborative/shared content databases or supply your own
- Agilent design services are readily available

DESCRIPTION	PRODUCT NO.
Agilent-designed Catalog Oligo Microarrays for Genexpression	
Whole Genome Human	G4112A
Human 1A (V2)	G4110B
Human 1B	G4111A
Whole Genome Mouse	G4122A
Mouse	G4121A
Whole Genome Rat	G4131A
Rat	G4130A
Collaboratively-designed Catalog Oligo Microarrays	
Arabidopsis 2	G4136A
Arabidopsis 3	G4142A
Magnaporthe grisea	G4137B
Mouse Development	G4120A
Mouse Development 44K	G2519A
Rice	G4138A
Yeast	G4140A
Zebrafish, C. elegans, Drosophila, Xenopus laevis; Maize; Yeast	G2518A, opt. 001-006
Agilent-designed Catalog Oligo Microarrays for Comparative Genome Hybridisation (CGH)	
Human Genome CGH 44A	G4410A
Human Genome CGH 44B	G4410B
Mouse CGH Microarray Kit 44A	G4414A

Sample Preparation Products

Tuned to provide optimal microarray results

Agilent offers a complete, integrated set of sample preparation products from isolation to labeling to sample QC. Built to work with minimal sample requirements, these products also offer ease-of-use for less technique dependence – delivering more robust results.

Sample Isolation

www.agilent.com/chem/isolation

- Enjoy fewer steps without DNase contamination.

RNA Sample QC

www.agilent.com/chem/chip

- Objective and sensitive RNA QC with lab-on-a-chip technology; now featuring the RNA Integrity Number to compare sample-to-sample, from lab-to-lab.

Amplification and Labeling

www.agilent.com/chem/bioreagents

- Enabling use of less sample for great results



The industry standard in RNA QC just got better with the RNA Integrity Number (RIN) capability. www.agilent.com/chem/RIN

DESCRIPTION	PRODUCT NO.
Agilent Total RNA Isolation Mini Kit	5185-6000
Agilent 2100 bioanalyzer	See previous section
RNA 6000 Pico LabChip Kit	5065-4073
RNA 6000 Nano Labchip Kit	5065-4476
DNA, Protein and Cell Analysis LabChip Kits also available from Agilent	See previous section
Fluorescent Direct Label Kit	G2557A
Low Input Fluorescent Linear Amplification Kit	5184-3523

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Microarray Processing Tools

Less Hands-on, Less Technique Dependence

Agilent knows how to process microarrays. And we've applied this expertise to our novel SureScan and SureHyb technologies found in microarray processing products that deliver trusted microarray results, from sample-to-sample and technician-to-technician.



Automated scanning is combined with dynamic autofocus to make this high performance scanner stand out in a recent comparison. Order publication number 5988-9498EN from www.agilent.com/chem/library

Hybridization Chambers

- Agilent Hybridization Chambers with SureHyb technology have become a favorite in labs processing 1" x 3" glass slide microarrays.

Agilent DNA Microarray Scanner with SureScan technology

- Highly stable and sensitive scanning of most 1" x 3" glass slide microarrays

DESCRIPTION	PRODUCT NO.
Hybridization Chambers	
Chamber	G2534A
Gasket Slides for 22K and 44K formats	G2534-60003
Gasket Slides for 2 x 11K formats	G2534-60002
Reagents and Wash Solutions	
In-Situ Hybridization Reagent Kit	5184-3568
In-Situ Hybridization Reagent Kit Plus	5185-5977
Stabilization and Drying Solution	5185-5979
Scanner	
Automated, dual-laser Scanner with Agilent Feature Extraction Software	G2565BA

Gene Expression Informatics

Tease out meaningful data for better discoveries

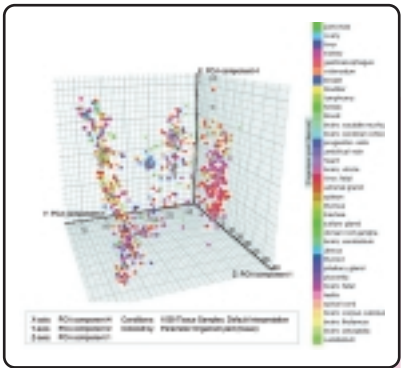
Agilent now offers one the most extensive portfolios of informatics platforms in the industry. From GeneSpring to Rosetta Resolver® to Synapsia, Agilent can offer you the right informatics solution for your informatics challenges.

Gene Expression Analysis

- CGH Analytics Software
- Agilent Feature Extraction Software
- GeneSpring Gene Expression Analysis Solution
- Rosetta Resolver System – supports compliance with FDA requirements set forth in 21 CFR Part 11.

Bridging Informatics

- Agilent Synapsia Informatics Workbench manages scientific projects, from initial planning and hypothesis steps, through the collection, viewing and analysis of heterogeneous data, to the formulation of insights, conclusions, and decisions.



GeneSpring is widely regarded as a gold standard in gene expression and seamlessly interfaces with Silicon Genetics' Signet software, which provides a highly scalable platform for enterprise-level genomic research.

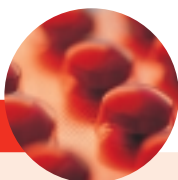
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Your Lab is Unique. So is Agilent's Portfolio of Services.

Your lab has unique demands when it comes to instrument maintenance, repair, and compliance. Rather than try to fit your lab into a service package that may or may not meet your needs, Agilent provides a comprehensive and flexible portfolio of services that you can customize throughout the life of your instrument. The result is extended protection on your investment that is as efficient for your budget as it is for your lab.



Pharmaceutical Services Bundle



Agilent offers a special service bundle to meet the specific needs of industries that must comply with rigorous quality and regulatory requirements. This bundle is ideal for the pharmaceutical and agricultural industries.

- Onsite instrument repair service including travel, labor, parts, and consumables used during repair.
- Phone support to isolate and resolve hardware problems.
- One annual onsite preventative maintenance service to ensure dependable operation and minimize unplanned downtime.
- One annual onsite operational qualification/performance verification.

Environmental Services Bundle



Agilent offers a special service bundle to meet the specific needs of laboratories that depend on mass spectrometers for sample analysis typically found in environmental and clinical industries.

- Onsite instrument repair service including travel, labor, parts, and consumables used during repair.
- Phone support to isolate and resolve hardware problems.
- One annual onsite preventative maintenance service to ensure dependable operation and minimize unplanned downtime.
- One annual mass spectrometer ion source cleaning allows laboratory staff to devote more time to chemical analysis, not instrument cleaning.

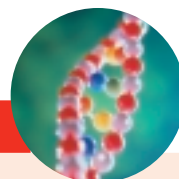
Petrochemical Services Bundle



Agilent offers a special service bundle to meet the specific needs of the high-availability, nonregulated laboratories typically found in petroleum, chemical, and petrochemical industries.

- Onsite instrument repair service including travel, labor, parts, and consumables used during repair.
- Phone support to isolate and resolve hardware problems.
- One annual onsite preventative maintenance service to ensure dependable operation and minimize unplanned downtime.

Life Sciences Services Bundle



Agilent offers a special service bundle to meet the specific needs of the life sciences industry.

- Onsite instrument repair service including travel, labor, and parts used during repair.
- Telephone support to isolate and resolve hardware problems.
- One annual onsite preventative maintenance service to ensure dependable operation and minimize unplanned downtime.
- Software update service allows you to remain current with the latest software enhancements at a fixed annual cost, increasing laboratory capability.



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Printed in Germany, August 1, 2005
Publication Number 5988-3581ENE

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