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Printed in Germany Publication Number 5988-4750ENE

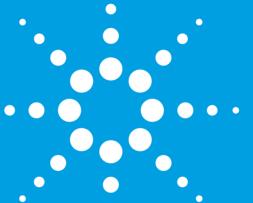


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# Agilent Technologies Instruments & Accessories Overview











### **Agilent – Your Total Solutions Partner**

Agilent Technologies is a leading provider of life sciences and analytical instrument systems to scientists in life sciences, pharmaceutical, environmental and chemical industries, worldwide. The company offers scientists the range of instruments, systems and services needed for success in acquiring and interpreting genetic and chemical information – from sample handling, to analysis to data management and reporting. We are committed to providing superior standards-based technology, designed for maximum productivity, cost effectiveness and ease in complying with regulatory requirements

#### **Answers to Technical Questions**

With years of experience, our inside sales reps 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.

#### Product Literature . . . Fast

You can download the latest information on Agilent instruments and accessories directly from our web site. Or, just call and ask us and we'll mail or fax the latest information on Agilent products to you right away.



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Con Chromotography

#### 6890 Gas Chromatography System

#### 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, supplied 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!

#### **Productivity**

- · Fast, easy method set-up.
- Fast oven warm-up and cool-down.
- · Decreased calibration time.

#### **Regulatory Compliance**

- ISO 9001
- · Declaration of Conformity
- · Declaration of System Validation

#### Flexibility

 Modularity to meet changing needs – quickly change or upgrade GC configurations.

- · LAN communication to PC.
- Six heated zones (Inlet, detector, auxiliary)

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
6890N GC and 7683 Injector for MSD	G1943N

#### Select an Inlet

### Introduction systems for liquid and gas samples

A broad range of inlets lets the Agilent 6890N GC system meet a wide range of requirements

#### 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 prevaporized samples.

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 <sub>2</sub>	G2617A	G1530N #130
PTV inlet with septum head, for use with liquid CO <sub>2</sub>	G2618A	G1530N #131
PTV inlet with septumless head, for use with liquid N <sub>2</sub>	G2619A	G1530N #132
PTV inlet with septum head, for use with liquid N <sub>2</sub>	G2620A	G1530N #133
Volatiles interface	G2319A	G1530N #142

#### Select a detector

#### A comprehensive selection of Agilent detectors

# Flame Ionization Detector (FID)

- · Maximum sensitivity and versatility.
- Optimized for capillary and packed chromatography.

# Thermal Conductivity Detector (TCD)

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

# Micro Electron Capture Detector (ECD)

- Micro ECD for better linearity, sensitivity and reduced susceptibility to contamination.
- Reduced degradation of sensitive compounds

#### Nitrogen Phosphorous Detector (NPD)

- · Ceramic bead for better stability lifetime.
- Optimized selectivity and sensitivity for nitrogen and phosphorus containing compounds.

# Flame Photometric Detector (FPD)

- Selective for sulfur or phosphorus containing compounds.
- Dual wavelength design allows simultaneous detection of S and P in the same run.

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

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	G1530N #240
Dual Wavelength FPD	G2334A	G1530N #241
Nitrogen Phosphorus Detector For packed and capillary use	G1575A	G1530N #250
Nitrogen Phosphorus Detector Capillary optimized	G1576A	G1530N #251

#### **5973N Mass Selective Detector**

# Easily perform routine qualitative and quantitative analyses in complex matrices

The 5973 Network Mass Selective Detector for the 6890N GC is an easy-to-use, highly reliable detector that can positively identify and quantitate compounds in complex matrices. It provides:

- Classical EI and CI 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.



See pages 8-10 for a more detailed product description.

### **GC Automatic Liquid Sampler**

### Add automatic liquid injection to your GC

Agilent can help you meet demands for increased throughput via unattended operation of your Agilent GC.

#### 7683 ALS for the 6890N

- The fastest injection speed in the industry – five times faster than any other ALS on the market.
- · 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.
- Easy inlet maintenance and fast, inexpensive repair if necessary.
- · Optional bar code reader.



Integrated 7683 ALS for your 6890N and 6890 Plus GCs.

DESCRIPTION **	PRODUCT NO.
7683 Autoinjector module (3 and 8 sample turrets)	G2613A
7683 Autosampler tray module Includes a pack of 100 2-mL screw-cap vials.	G2614A
7683/6890 ALS interface board	G2612A
DESCRIPTION **	PRODUCT NO.
Individual Modules* 7673 Autoinjector tower module	G1513A
7673 Autosampler tray module 100 position sample tray	18596C
7673 Controller module Compatible with all versions of 7673 injectors and trays.	G1512A
8 sample turret for use with G1513A autoinjector	G2306A

Trade in your old 7673 autoinjector, 100 position robotic tray, and/or controller to upgrade to the latest features.

# Ideal combination of high performance, small size and ease of use

#### High performance

- Meets EN 50082-2 Heavy Industrial Environment standards.
- Split/splitless or packed inlet
- FID, TCD, or MSD. Autosampler – 8 or 27 samples.
- Gas or liquid sampling valve.



DESCRIPTION	PRODUCT NO
6850 Series Gas Chromatograph* Includes 6-button front panel with 2-line display,built-in interface for the 7683 autoinject RS-232,analog out. Inlet operating pressure 0-100 psi.	G2630A ctor,
Capillary S/SL Inlet and FID with EPC Capillary split/splitless inlet (0-100 psi) and flame ionization detector, both w/EPC. or Packed Inlet/FID	G2630A #611 G2630A #621
Capillary S/SL Inlet and TCD, with EPC Capillary split/splitless inlet (0-100 psi) and thermal conductivity detector, both w/EPC. or Packed Inlet/TCD	G2630A #612 G2630A #622
LAN Communications Interface Provides capability to connect to a host computer over LAN. Includes ThinLan (coax) and 10BaseT (twisted pair) cable.	G2630A #500
Additional GC License for 6850 GC Provides a license for a 6850 GC to operate with an existing multitechnique ChemStatic	<b>G2630A #530</b> on.
6850 Hand-held controller Provides method programming/editing and other functions. Detachable controller can be used with multiple 6850 GCs. RS-232 communications and cable included.	G2629A
*Gas or Liquid Sampling Valves	

### 6850 Automatic Liquid Sampler

# Unattended operation for increased sample throughput

- Up to 27 2-ml vials or up to 22 4-ml vials
- Access to smaller samples through variable sampling depth
- Modular



DESCRIPTION	PRODUCT NO.
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
7683 Autoinjector module 3 and 8 sample turret	G2613A

DESCRIPTION	PRODUCT NO.
Screw top vials and caps	5182-0557
Non-assembled, 500 vial convenience pack, clear vials, blue screw caps, PTFE/red rubber septa	5182-0867
Crimp top vials 500 vial convenience pack, clear crimp vials, silver caps, PTFE/red rubber septa	5181-3400
Snap top vials and caps 500 vial convenience pack, clear snap vials, polymer caps, PTFE/red rubber septa	5182-0547
Vial inserts 100 μl, mandrel point inserts with polymer feet, 100/pk	5181-1270
250 µl, flat bottom glass inserts, 500/pk	5181-3377
Micro vials Micro-V micro sampling vials, crimp top, 100/pk	5184-3551
Crimping and Decapping Supplies Electronic Crimper for 2 mL vials w/ battery and charger	5183-4763
Electronic Decapper for 2 mL vials w/ battery and charger	5184-3567
Crimp holder without crimp head	5062-2495
Crimp head for 12 mm caps	5001-3755
Decapper head for 12 mm caps	5001-3758
Syringes Syringe, 10 µl tapered, FN 23-26s/42/HP, 6/pk	5181-3360
Syringe, 10 µl straight, FN 23s/42/HP, 6/pk	9301-0725
Syringe, 10 µl tapered, FN, Gastight, 23-26s/42/HP, 6/pk	5181-3361
Syringe, 5 µl tapered, FN 23-26s/42/HP, 6/pk	5181-8810
Syringe, 5 µl straight needle, FN 23s/42/HP, 6/pk	5181-8810
Syringe, 5 μl straight, FN 23/42/HP	9301-0892

#### Micro Gas Chromatographs

# Fast, accurate measurements when and where you need them

Agilent Micro Gas Chromatographs are dependable, fast, accurate, easy-to-use systems. They are designed to measure gas compositions and can handle a wide range of applications.

#### **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

#### **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.

#### Visit www.agilent.com/chem

#### **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.

#### 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 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.

#### 2000 Micro GC

Unheated models analyze gases at ambient temperature with boiling points up to 150°C; heated models analyze heated samples (to 110°C) with boiling points up to 220°C. Available in P Series, Quad Series and Refinery Gas Analyzers (RGA).

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
Add second channel including TCD	G2801A #002
Cerity Networked Data System Provides control and data acquisition for one 3000 micro GC and standard chromatographic caculations and reporting.	G2801A # 601
3000 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
One or two channel Micro GC	G2890A
Three or four channel Micro GC	G2891A



### 7694 Headspace Sampler

### Looking for volatile analytes? Headspace sampling can simplify your work

Eliminate sample preparation with the Agilent 7694 Headspace Sampler by introducing volatile components automatically – from virtually any sample matrix – directly into a gas chromatograph (GC). A low-volume, highly inert, heated volatiles interface is optimized for headspace-GC analysis, preventing sample loss or degradation and reducing carryover.



DESCRIPTION	PRODUCT NO.
7694A Headspace sampler without EPC (44 samples)	G1290B
EPC Headspace interface kit to a 6890 EPC inlet	G1940A
7694A Headspace sampler software (Windows compatible)	G2401AA
7964E Economy headspace sampler (12 samples)	G1883A
Support table for headspace above MSD	G1287A

### **Purge and Trap Concentrator**

### Purchase the Tekmar 3100 directly from Agilent Technologies

- · 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 removeable keypad or via PC with Purge and Trap control software.

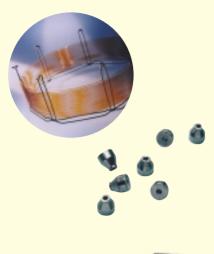
DESCRIPTION	PRODUCT NO.
Tekmar* 3100 Purge and Trap	TMR-3100
TekLink*PC Control Software	TMR-3100 #005
Tekmar* 3100 upgrade to whole Silcosteel®	TMR-3100 #100
Tekmar <sup>*</sup> 3100 upgrade to CO <sub>2</sub> TURBOCool™	TMR-3100 #200
Tekmar <sup>*</sup> 3100 upgrade to CO <sub>2</sub> TURBOCool <sup>™</sup> whole Silcosteel	TMR-3100 #300
Tekmar' 2016 Purge and Trap Autosampler Capability for 16 3/4" mount discrete samplers.	TMR-2016
5 ml frit sparger	TMR-2016 #020
5 ml fritless sparger	TMR-2016 #021
25 ml frit sparger	TMR-2016 #030
25 ml fritless sparger	TMR-2016 #031
Disposable spargers	TMR-2016 #010
Tekmar AQUATek* 70 ALS Includes TekLink' PC Control Software.	TMR-AQUA70
Cryofocusing Module for Purge and Trap	TMR-6520

<sup>\*</sup> Silcosteel® is a registered product of Restek Corporation.

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### **GC Consumables and Accessories**

For more information on our entire portfolio of J&W and Agilent GC columns and other gas chromatography supplies, visit our web site at www.agilent.com/chem









DESCRIPTION	PRODUCT NO.
Column Nut (2/pk)	5181-8830
Ferrules and Septa 0.5 mm id graphite ferrules (10/pk) (100, 200, 250, and 320 µm)	5080-8853
1.0 mm id graphite ferrules (530 μm) (10/pk)	5080-8773
Septa, 11 mm high-temperature, BTO (50/pk)	5183-4757
Septa, 11 mm advanced Green (50/pk)	5183-4759
Septa, 11-mm long life (50/pk)	5183-4761
Septa, 11-mm, general purpose(24/pk)	5181-1263
Split/Splitless Inlet Supplies 6890 Split/Splitless liner, 4 mm id, 900-µl (w/glass wool)	19251-60540
Single taper liner, 4 mm id, 900-µl, (deactivated)	5181-3316
Single taper liner, 4 mm id, 900-µl, deactivated, glass wool	5062-3587
Double taper splitless liner (deactivated)	5181-3315
Graphite O-rings for split applications (10/pk)	5180-4168
Graphite O-rings for splitless applications (10/pk)	5180-4173
Viton O-rings, for all liner applications (12/pk)	5180-4182
Gold-plated seal	18740-20885
Tools and Gas Management Supplies Installation kit with ferrules, nuts, copper tubing, and oxygen, moisture and hydrocarbon traps.	19199M
Electronic Leak Detector	5182-9646
Two stage regulator, brass, 125psig max for He/Ar/Ni	5183-4644
ADM 1000 Volumetric Flowmeter	220-1170
Oxygen Moisture Trap	OT3-2
Hydrocarbon "S" Trap, activated charcoal	5060-9096
Moisture "S" Trap, preconditioned	5060-9084
FID Supplies for 6890 Ignitor glow plug assembly	19231-60680
FID collector assembly	G1531-60690
Jet, capillary dedicated (0.29 mm id tip)	G1531-80560
Jet, adaptable capillary (0.29 mm id tip)	19244-80560
Jet, adaptable packed (0.46 mm id tip)	18710-20119
NPD Supplies for 6890 NPD bead assembly	G1534-60570
NPD jet, capillary optimized (0.29 mm)	G1531-80560
NPD jet, capillary adaptable (0.29 mm)	19244-80560
FID/NPD Adapters for 6890 Capillary FID/NPD adapter	19244-80610
1/4 inch vespel ferrule (10/pk)	5080-8774
1.0 mm graphite ferrule (10/pk)	5080-8773
0.5 mm graphite ferrule (10/pk)	5080-8853
1/4 inch brass tubing nut (10/pk)	5180-4104
TCD Supplies for 6890 TCD capillary column adapter seal and nut	G1532-80540
ECD Supplies for 6890 ECD wipe test kit	18713-60050

The world's best benchtop MSD keeps getting better

Agilent's 5973 Network Mass Selective Detector makes it easier than ever to perform routine qualitative and quantitative analyses – even with complex sample matrices.

#### Sensitivity

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



- · Legally defensible data.
- · Identify total unknowns.
- Identify molecular weight using adduct ions.

#### Low maintenance

- High Energy Dynode extends multiplier life by two to three times.
- Independently heated interface, ion source and quadrupole increases the time between source cleanings.

#### **Performance**

- Mass range from 1.6 to 800 amu for expanded compound identification.
- Scan speed to 5200 amu/sec for better precision and narrow peak analysis and linear response over four orders of magnitude.
- Variable electron energy voltage to enhance molecular ions and increase sensitivity.

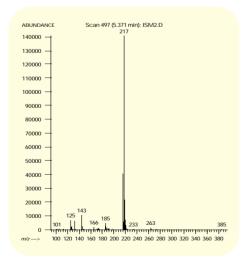
#### Choice of pump systems

- 95 L/sec diffusion pump.
- 70 L/sec standard performance turbomolecular pump for EI and PCI work.

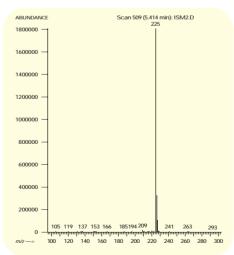
 255 L/sec high performance turbomolecular pump allows use of larger ID columns for increased sample capacity and better linearity as well as shorter pump-down time for El. PCI and NCI work.

#### MSD ChemStation for ease of use

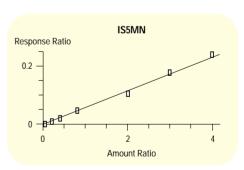
- Complete instrument control and data acquisition.
- · Retention Time Locking (RTL) software.
- Library databases including NIST 98, Wiley, RTL pesticide library and Pfleger drug library.



Electron capture negative ion chemical ionization mass spectrum of the trimethyl-silyl derivative of isosorbide-5-mononitrate from 100 to 400 amu using ammonia buffer gas.



Electron capture negative ion chemical ionization mass spectrum of the trimethyl-silyl derivative of p-nitrobenzyl alcohol internal standard from 100 to 400 amu using ammonia buffer gas.



Calibration curve for IS5MN from 10 ng/ml to 1000 ng/ml,  $r^2 = 0.996$ .

### **5973 Mass Selective Detector**

For more information on Agilent Technologies' Mass Selective Detector and relative applications, visit our web site at www.agilent.com/chem







DESCRIPTION	PRODUCT NO.
5973N MSD Performance Turbo Pump PCI/NCI System Includes MSD, ChemStation, GC/MSD software, PC, orinter, and ion gauge controller. For use with 6890N GC.	G1789A
973N MSD Standard Turbo Pump PCI System ncludes MSD, ChemStation, GC/MSD software, PC, printer, and ion gauge controller. For use with 6890N GC.	G1788A
973N MSD Performance Turbo Pump EI System ncludes MSD, ChemStation, GC/MSD software, PC and rinter. For use with 6890N GC.	G1779A
973N MSD Standard Turbo El System ncludes MSD, ChemStation, GC/MSD software, and PC, printer. For use with 6890N GC.	G1778A
973 MSD-Diffusion El System ncludes MSD, ChemStation, GC/MSD software, PC and printer.	G1777A
GC/MS System ncludes 6850GC, 5973N MSD Diff-Pump EI Mainframe, tandard ChemStation Bundle. Not included: 59864B ion controller.	G2570A
on Gauge Controller	59864B
PCI/NCI Upgrade for 5973N MSD Jpgrades all turbo-pump equipped 5973N MSD with Chemical ionizarion.	G1086A
890N GC for 5973N MSD ncludes 100 psi split/splitless inlet and interface to 5973N MSD.	G1942N
i890N GC and 7683 Injector for 5973N MSD ncludes 100 psi split/splitless inlet and interface to 5973N MSD and one automated liquid injector with 8 position sample tray.	G1943N
1683 Automatic Liquid Sampler Tray ncludes 100 position sample tray.	G2614A
MSD Data Analysis Software ncludes 5 user configurable modes: standard, enhanced, environmental, petrochemical, and drug analysis.	G1710CA
Wass Spectral libraries for MS ChemStations	
NIST 98 MS Library Bundle CD-ROM includes 130K spectra, 107K structures (Agilent & NIST formats) and NIST MS Search and Deconvolution Programs. Requires 120MB.	G1033A
NIST 98 Chemical Structures Database CD-ROM ncludes 107K chemical structures.	G1036A
Wiley 7th Edition MS Spectral Library CD-ROM ncludes 390,000 El spectra and 621,660 chemical names. Chemical Abstract numbers exist for 252,966 entries.	G1035B
MS Pesticide Library CD-ROM ncludes 300 compounds in PBM format. Requires 1MB of free disk space and CD-ROM.	G1038A
Pfleger 3rd Edition MS Drug Library CD-ROM ncludes 6,300 EI drug and drug metabolite spectra. Requires 4.5MB of free disk space and CD-ROM.	G1039C
RTL Pesticide MS Library ncludes 550 compounds and RTL method. For use with MSD ChemStation Software revision B.01.00 or later.	G1049A
Wiley 7N Edition MS Library Upgrade ncludes 390K spectra, PBM & NIST formats. Requires egistration number or previous copy, NT and CDC ROM.	G1730A
NIST 98 MS Library Bundle Upgrade	G1041A
NIST Mass Spectral Search Program	G1043A
IIST Spectral Library Only	G1044A

### **MSD Consumables and Accesssories**

For more information on MSD Consumables and Accessories, visit our web site at

www.agilent.com/chem



DESCRIPTION	PRODUCT NO.
Ion Gauge Controller For use with 5973N MSD	59864B
Triode Gauge Tube	0960-0897
El Source	G1099-60106
CI Source	G1999-65402
Filament assembly	05972-60053
K and M Electron Multiplier	05971-80102
K and M Electron Multiplier replacement horn	05971-80103

DESCRIPTION	PRODUCT NO.
Maintenance Supplies	
Nylon gloves, large	8650-0030
Abrasive paper, 3 µm 5/pk	5061-5896
Lintfree cloths, 15/pk	05980-60051
Cotton swabs 100/pk	5080-5400
Diffusion pump oil, Santovac 5P Ultra, 18.5ml	6040-0809
Foreline pump oil, Inland 45, 1 ltr	6040-0834
Ion Source Supplies	
El Filament assembly (ceramic coiled filament with reflector assembly)	05972-6005
CI Filament assembly, 2/pk	G1099-80053
Lens insulator	05971-20130
Column nut, Ion source	05988-20066
Repeller Assembly Supplies	
Insulator	G1099-20133
Miscellaneous Supplies	
Electron multiplier horn	05971-80103
PFTBA (Perfluorotributylamine) sample, 10g	8500-0656
PFTBA Glass Bulb	05980-20018
MSD NoVent (prevents air/moisture from entering system during column change or inlet maintenance	5183-4782
Ferrules	
GC/MSD interface ferrule, 0.4 mm id for 200/250 µm columns (10/pk)	5062-3508
Injection port ferrule, Vespel/Graphite, 250 µm id (10/pk)	5181-3323

### 7500 Series ICP-MS

### A range of systems to meet your needs

The 7500 Series comprises of four different models – 7500a, 7500i, 7500s and 7500c – to precisely meet your application requirements. And since the 7500s Series is modular, each model can be confugured or upgraded with optional features as required.



DESCRIPTION	PRODUCT NO.
Typical Samples: Nickel Sample Cone. Screw threaded mount. Includes O-ring	G1820-65238
Nickel Skimmer Cone except 7500c. Screw threaded mount.	G1820-65050
Nickel Skimmer Cone for 7500c. Screw threaded mount.	G1833-65497
Pt Skimmer Cone except for 7500c. Screw threaded mount.	G1820-65237
Pt Skimmer Cone for 7500c. Screw threaded mount.	G1833-65092
Stainless Skimmer Base except for 7500c	G1833-65407
Stainless Skimmer Base for 7500c	G1833-65498
Brass Skimmer Base except for 7500c	G1833-65408
Brass Skimmer Base for 7500c	G1833-65505
Quartz Spray Chamber	G1820-65337
Quartz Torch	G1833-65423
Spray Chamber/Torch Connector	G1833-65426
Shield Torch System for 7500a or 7500i	G3142B
<b>Nebulizer</b> Concentric Nebulizer	G1820-65138
Microflow Nebulizer	G3139A
Endcap for Concentric & Microflow Nnebulizer (with Viton O-ring)	G1833-65475
Babington Nebulizer	G1820-60453
Endcap for Babington Nebulizer (with Viton O-ring, Polypropylene)	G1833-65476
<b>7500a ICP-MS Mainframe</b> ICP-MS mainframe equipped with high solids nebulizer and Ni interface. Requires 7500 Series ChemStation.	G3151A
<b>7500i ICP-MS Mainframe</b> ICP-MS mainframe equipped with high solids nebulizer and Ni interface. Requires 7500 Series ChemStation.	G3152A
<b>7500c ICP-MS Mainframe</b> ICP-MS mainframe equipped with Babington nebulizer, Ni interface and Octopole Reaction System.	G3155A
7500s ICP-MS Mainframe ICP-MS mainframe equipped with high solids nebulizer and Ni interface. Requires 7500 Series ChemStation.	G3153A
Integrated Sample Introduction System (ISIS) For 7500a or 7500s. Expands the application range of the 7500 Series.	G3148A
Integrated Autosampler Rotary type autosampler with cover for ultratrace analysis.	G3160A
Intelligent Sequence Software for 7500a Adds Intelligent Sequencing software module.	G3143A
T-Mode Interface for 7500a or 7500i For low level Fe determination in drinking water samples.	G3147A
7500 Series ChemStation Includes ICP-MS operating software, PC, monitor and printer.	G3150A

For a complete list of replacement parts and supplies for the 7500 ICP-MS, refer to our web site at www.agilent.com/chem

# The new standard for value and productivity

Agilent Technologies 1100 Series sets the industry standard for HPLC analysis. The combination of our long expertise in chemical analysis with leading computer technology expands networking technology into the laboratory.

# 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.

# Superior HPLC modules for best chromatography results

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

# 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.



#### **Pumps**

- Isocratic pump designed for routine QA/QC applications.
- Binary gradient pump for rapid, reproducible gradients and highest performance especially at low flow rates.
- Quaternary pump provides the highest flexibility in solvent mixing for a wide range of research and routine applications.

The 1100 Series also includes pumps designed for specific applications:

- Capillary pump ideally suited for capillary LC applications, where sample volumes are limited and higher sensitivity is essential.
- Preparative pump is an isocratic high performance pump with two parallel pistons, perfect for scale-up work, for typical preparative HPLC and for purity checks

#### **Autosamplers**

- Standard autosampler for reliability, safety and ease of use.
- Well-plate autosampler adds maximum flexibility and fast injection.
- Thermostatted micro autosampler and micro well-plate autosampler allow injection of sample volumes from nl to µl.

#### **Detectors**

Available are UV-detectors including variable and multi-wavelength, mass selective detectors, as well as special detectors – refractive index and fluorescence.

#### Saves time

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

### 1100 Series Modules

#### Select a

### > pumping system



1100 Series Isocratic Pump with active inlet valve



1100 Series Binary Pump with high pressure mixing



1100 Series Vacuum Degasser for reduced baseline noise



1100 Series Capillary Pump with active inlet valve



The ChemStation Plus controls and evaluates data from up to four LC/GC/CE systems. A graphical user interface and built-in on-line tutorial make instrument operation fast and easy to learn.

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
Maintenance Kit for Binary Pump Includes parts required for standard maintenance.	G1312A #010
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
Maintenance Kit for Quaternary Pump Includes parts required for standard maintenance.	G1354A #010
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

#### Select a controlling and data-handling device

DESCRIPTION	PRODUCT NO.
Single Instrument LC 2D ChemStation Includes PC, CD-ROM, monitor, software and printer.	G1317A
High Performance LC 2D Chemstation Includes PC, CD-ROM, monitor, software and printer.	G1318B
Single Instrument LC 3D ChemStation Includes PC, CD-ROM, monitor, software and printer.	G1319A
1100 Control Module For single point control of 1100 HPLC modules and on-line signal monitoring. Includes CAN-cable and slot for PCMCIA-card for method transfer.	G1323B
Purification/High Through Put SW Module Software for the purification system including fractionation based on time and UV signal.	G2262A

### 1100 Series Modules

#### Select a

# manual or automated injection system



1100 Series Autosampler



1100 Series Well-Plate Sampler



220 Micro Plate Sampler



1100 Series Fraction Collector



1100 Series Vacuum Degasser or Micro Degasser for reduced baseline noise



1100 Series Thermostatted Column Compartment with two independent temperature zones

DESCRIPTION	PRODUCT NO.
1100 Autosampler Includes autosampler with 100 vial (2ml) tray, 40 vial (2ml) tray, 15 vial (6ml) tray and CAN cable. Injection volume range from 0.1 to 100 microliters.	G1313A
1100 Thermostatted Autosampler Includes cooled autosampler with 100 vial (2ml) tray, 40 vial (2ml) tray, 15 vial (6ml) 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 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.	G1367A
1100 Thermostatted Well-Plate Sampler Includes well-plate autosampler with well-plate tray, sample thermostat, Rheodyne injection valve and CAN cable.	G1368A
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.	G1377A
1100 Capillary LC System Includes micro vacuum degasser, capillary pump, thermost, micro ALS, thermostatted column compartment, DA detector with 500 nl flow cell, LAN and 3D ChemStation.	G1388A
1100 Manual Injector Includes Rheodyne 7725 manual injection valve, 20 ul sample loop and mounting stand.	G1328A
220 Micro Plate Sampler System Provides sampling from micro- or deep-well plates, vials, tubes. Includes racks for plates, dilutor, valve, 20 ul loop, S/W (INB22000), safety shield.	G2250A
Select a fraction collector	
1100 Series Fraction Collector High flow version with short needle for deep well-plates and vials from 48 mm up to 100 mm in height.	G1364A
220 MPS Fraction Collection Accessory Enables fraction collection in well-plates or tubes and color-coded sample/fraction tracking. Includes valve kit and software (INB22001).	G2251A
Select an on-line vacuum degasser	
1100 Vacuum Degasser Includes 4 channel vacuum degasser	G1322A
1100 Micro Degasser Includes 4 channel vacuum degasser	G1379A
Select a thermostatted column compartment With optional column switching valve.	
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

### 1100 Series Modules

#### Select a

# ➤ detector from the 1100 Series



1100 Series Variable Wavelength Detector Built in holmium oxide filter



1100 Series Diode Array Detector 190-950 mm with programmable slit



1100 Series Multiple Wavelength Detector



1100 Series Fluorescence Detector Optional sample cuvette



1100 Refractive Index Detector Including solvent recycle valve

DESCRIPTION	PRODUCT NO.
Detectors 1100 Variable Wavelength Detector Includes variable wavelength detector with deuterium lamp, Lan interface and CAN cable. No flow cell included.	G1314A
Standard Flow Cell Includes stainless steel flow cell with 10 mm path length and 14 microliter volume. Pressure tight up to 40 bar.	G1314A #018
Semi-micro Flow Cell ncludes stainless steel flow cell with 6 mm path length and 5 microliter volume, pressure tight up to 120 bar.	G1314A #016
Micro Flow Cell ncludes stainless steel flow cell with 5 mm path length and 1 microliter volume. Pressure tight up to 40 bar.	G1314A #020
digh Pressure Flow Cell ncludes stainless steel flow cell with 10 mm path length and 14 microliter volume. Pressure tight up to 400 bar.	G1314A #021
100 Diode Array Detector ncludes diode-array detector with long-life deuterium and tungsten lamp, CAN cable, no flow cell included.	G1315B
Standard Flow Cell ncludes standard steel flow cell with 10 mm path length and 14 microliter volume. Pressure tight up to 40 bar.	G1315B #018
Semi-micro Flow Cell ncludes stainless steel flow cell with 6 mm path length and 5 microliter volume, pressure tight up to 120 bar.	G1315B #016
oo Nanoliter Flow Cell ncludes quartz flow cell with 10 mm path length and 500 nanoliter volume in steel housing and connecting capillaries. Pressure tight up to 40 bar.	G1315B #014
Micro High Pressure Flow Cell ncludes stainless steel flow cell with 6 mm path length and 1.7 microliter volume. Pressure tight up to 400 bar.	G1315B #020
Prep Flow Cell 3 mm 120 bar ncludes stainless steel flow cell with 3 mm path length and I microliter volume, pressure tight up to 120 bar.	G1315B #022
Prep Flow Cell 0.3 mm 20 bar quartz ncludes a quartz cell with 0.3mm path length, pressure tight up to 20 bar, PTFE connection tubings (i.d. 0.5 and 0.8 mm).	G1315B #024
100 Multiple Wavelength Detector ncludes diode-array based detector with long-life deuterium and tungsten lamp. CAN cable. No flow cell included.	G1365B
Semi-micro Flow Cell ncludes stainless steel flow cell with 6mm path length and 5 microliter volume, pressure tight up to 120 bar.	G1365B #016
Standard Flow Cell Includes stainless steel flow cell with 10mm path length Ind 13 microliter volume, pressure tight up to 120 bar.	G1365B #018
Prep Flow Cell 3 mm 120 bar SST Includes stainless steel flow cell with 3 mm path length and I microliter volume, pressure tight up to 120 bar, SST Connection capillaries (i.d. 0.5mm).	G1365B #022
digh Pressure Micro Flow Cell ncludes stainless steel flow cell with 6mm path length and .7 microliter volume, pressure tight up to 400 bar.	G1365B #020
100 Fluorescence Detector or multi-wavelength detection, on-line acquisition of excitation and emission spectra. Includes 8 ul flow cell.	G1321A
Juorescence Detector Flow-thru Cuvette or off-line measurement, quartz cell with 8 ul volume, pressure ight up to 20 bar, 1 ml syringe, wide bore capillaries.	G1321A #025
ncludes flow cell and solvent recycle valve, ressure tight up to 7 bar.	G1362A

#### An LC/MSD for the chromatographer

The 1100 Series LC/MSD provides information quickly in one chromatographic run. It provides molecular weight, structural information and has excellent selectivity needed to identify compounds, check the purity of chromatographic peaks and quantitate trace level samples in complex matrices in a rugged, reliable, easy-to-use benchtop system.

# Ordering options for total flexibility

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



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

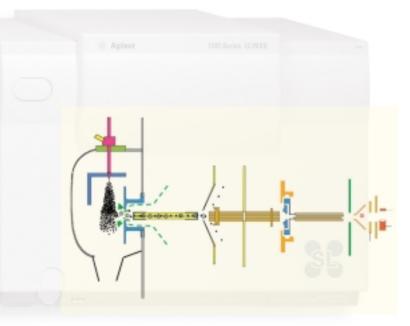
#### LC/MSD VL

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

#### The LC/MSD for the Chromatographer

- · Improved signal to noise ratio.
- Increased sensitivity by a factor of 10 to 100.
- · No contamination of ion optics.
- · Full-scan mode for rapid detection.
- SIM (selective ion monitoring) mode for highest sensitivity of unknown compounds.
- Integrated software platform for both MS and LC.

Visit www.agilent.com/chem



Orthogonal spray orientation and high-capacity drying gas system improve instrument performance and decrease maintenance requirements

DESCRIPTION	PRODUCT NO.
LC/MSD API-Electrospray SL System 1100 Series LC/MSD module, APCI-Electrosray source, PC/Printer and LC/MSD ChemStation software for data acquisition and data analysis.	G2708DA
LC/MSD APCI SL System  1100 Series LC/MSD module, APCI source, PC/Printer and LC/MSD ChemStation software for data acquisition and data analysis.	G2707DA
LC/MSD API-Electrospray VL System Includes 1100 Series LC/MSD module, API-Electrospray source, PC/Printer, and LC/MSD ChemStation software for data acquisition and data analysis.	G2708CA
LC/MSD APCI VL System Includes 1100 Series LC/MSD module, APCI source, PC/Printer, and LC/MSD ChemStation software for data acquisition and data analysis.	G2707CA
APCI Source Includes APCI spray chamber, corona discharge needle, nebulizer, APCI vaporizer and test calibration kit.	G1947A
API-Electrospray Source Includes API-ES 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
LC/MSD ChemStation Software For system control, acquisition & eval. of chromatographic and spectral data from one 1100 LC/MSD. Includes DAD & MS spectral analysis capability.	G2710AA
1100 LC/MSD Data Analysis Software	G2730AA
Software to add 1100 LC/MSD to an existing 3D HPLC ChemStation	G2715AA
1100 LC/MSD Deconvolution and Bioanalysis Software	G2720AA
MSD Easy Access Software for LC/MSD Includes installation and familiarization.	G2725AA

### 1100 Series LC/MSD Trap

### **Identify target compounds faster** and with more confidence

The Agilent 1100 Series LC/MSD Trap is a high performance liquid chromatograph/mass spectrometer (LC/MSn) ion trap system that gives scientists the MS/MS and MS<sup>n</sup> data they need to solve challenging research questions faster and with more confidence.

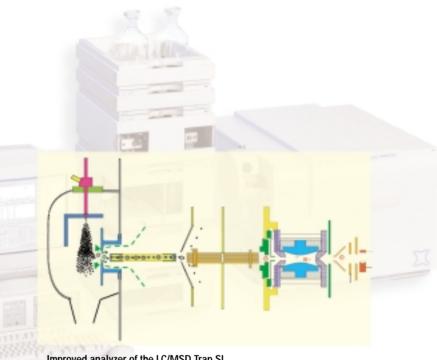
The most sensitive trap available with excellent full-scan sensitivity

#### 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.
- · Manual MS<sup>n</sup>.
- High-speed positive/negative ion mode polarity switching (~0.5 seconds).
- · Advanced auto MSn with a preferred mass list and time-based dynamic exclusion.
- · New data-dependent maximum resolution scan mode.
- · Fastest automation determination of charge state on-the-fly for intelligent MS/MS.
- · SmartFrag for quality MS/MS on the first try.

#### LC/MSD Trap VL capabilities:

- · MS/MS high scan sensitivity.
- · 2,200 m/z mass range.
- · Automatic MS/MS.
- · Standard-speed positive/negative mode polarity switching (~2 seconds).



Improved analyzer of the LC/MSD Trap SL

DESCRIPTION	PRODUCT NO
LC/MSD Trap SL System Includes 1100 Series LC/MSD Trap module, API-Electrospray source, PC, printer and LC/MSD ChemStation software for data acquisition and data analysis.	G2440DA
LC/MSD Trap VL System Includes 1100 Series LC/MSD Trap module, API-Electrospray source, PC, printer and LC/MSD ChemStation software for data acquisition and data analysis.	G2440CA
APCI Source for 1100 LC/MSD Trap Includes APCI spray chamber, corona discharge needle, nebulizer, APCI vaporizer and test calibration kit.	G1947A
APPI Source for 1100 LC/MSD Trap Includes APPI spray chamber, power supply, communication cable, power cord, nebulizer, vaporizer, photoionization lamp and test calibration.	G1971A
LC/MSD Trap Deconvolution and Bioanalysis Software For deconvolution of multiply charged ion series and software for protein and peptide data evaluation.	G1981AA
LC/MSD Trap ChemStation Data Analysis Software For off-line data evaluation.	G2450AA

# Switching between interfaces is simple and fast

With a choice of ionization modes, the Agilent LC/MSD can be used to analyze a wide range of sample types – from pharmaceuticals to large proteins. Your choice of ionization sources for MSD and MSD Trap include:

#### ESI - Electrospray Ionization

- Patented orthogonal spray ion source design provides exceptional sensitivity and reproducibility over a wide range of LC operating conditions.
- Ideal for charged and polar compounds.
- The orthogonal spray orientation keeps the capillary cleaner.
- The ion source is very tolerant of non-volatile components in samples or mobile phase.
- Unsurpassed sensitivity for demanding applications (SL model).
- Lower detection limits
   high sensitivity.
- More functionality tools for automation and enhanced productivity.

## APCI – Atmospheric Pressure Chemical Ionization

- · Rugged, low maintenance pre-aligned.
- Ideal for thermally stable analytes, compounds of intermediate MW and polarity, compounds containing heteroatoms and compounds with poor electrospray response.



#### Syagen PhotoMate<sup>™</sup> 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.

#### **On-line Nanospray**

- Integrated with the 1100 capillary LC system.
- Highest sensitivity at nanoliter flow rates.

# Use with other HPLC models for highly sensitive detection

The Agilent 1100 Series LC/MSD is intended to be used primarily with the 1100 Series HPLC modules, but it may be used with other HPLC models. Its design is compatible with 1.0 to 4.0 mm columns, and also 2.1 mm narrow bore and 0.3 to 1.0 mm capillary columns.

#### **Easy Access Software**

Agilent's new system makes confirmation of compounds remarkably fast and easy, even for users without mass spectrometry expertise.

- LC and LC/MS software for shared systems.
- · Walk up simplicity.

# Additional systems designed with you in mind . . . let us help you configure the best solution

# Agilent 1100 Series LC Value System

An economical starter bundle, designed for pharmaceutical QA/QC and general HPLC users. In a small footprint, you get state-of-the-art hardware and software for easy, high-quality HPLC at a surprisingly low cost.

#### Agilent 1100 Series Well-Plate LC Systems

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 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. See page 28 for more details.

#### MS for Combinatorial Chemistry

Using Agilent's system you can rapidly identify the products of combinatorial syntheses and estimate their purities before screening. As a result, you get fast validation of combinatorial methods and efficient confirmation of large combinatorial synthesis projects.

With this system, you can generate and optimize drug leads with remarkable ease and speed – without mass spectrometry expertise.







### **LC Consumables and Accessories**



DESCRIPTION	PRODUCT NO.
Pump Module Supplies	
Maintenance kit (outlet cap, PTFE frits (10), pump seals (4), outlet gold seal, inlet filters (2), valve cartridge)	G1311-68710
Sapphire plunger	5063-6586
Plunger seals (2/pk), graphite-filled Teflon	5063-6589
Plunger seals (2/pk), polyethylene for normal phase	0905-1420
Sieves (SS) for outlet valve (10/pk)	5063-6505
Cartridge for active inlet valve	5062-8562
Glass filter, solvent inlet	5041-2168
Solvent reservoir, 1 liter with cap	9301-1421
Solvent tubing, 5m, 1.5 mm id, 3 mm od	5062-2483
Online Degasser Supplies Online degasser accessory kit (screws (8), bushings (8), markers (4), tubing from degasser to pump, syringe, adapter)	G1322-68705
Autosampler Supplies Maintenance kit (Vespel rotor seal, needle, needle seat, metering seals (2), finger caps (15))	G1313-68709
Multi-draw upgrade kit (seat capillary 500 μl,	C1212 (0711
seat capillary 1500 µl, ZDV union) Rotor seal, Vespel	G1313-68711
	0100-1853
Needle, autosampler	G1313-87201
Well-Plate Autosamper Supplies 384 Well Plate, PP, 30/pk	5042-1388
96 Deep Well Plate, 1 ml, PP, 32/pk	5042-1387
96 Well Plate with glass inserts, caps, septa preassembled, 0.35 ml	5065-4402
96 Well Plate, 0.5 ml, PP, 10/pk	5042-1386
96 Well Plate, 0.5 ml, PP, 120/pk	5042-1385
Connecting Capillaries and Fittings Connecting capillary, w/ fittings, 9 cm, 0.17 mm id	G1316-87300
Connecting capillary, w/fittings, 18cm, 0.17 mm id	G1313-87305
Connecting capillary, w/ fittings, 39cm, 0.17 mm id	G1315-87311
Connecting capillary w/ fittings, 60 cm, 0.17 mm id	G1312-67305
1/16" SS fittings, front and back ferrules, 10/pk	5062-2418
1/16" SS long fittings, front and back ferrules, 10/pk	5065-4454
Colored PEEK finger tight fittings, 10/pk	5065-4426
Flexible tubing (SS), w/o fittings, 10.5cm, 0.17 mm id	5021-1816
Flexible tubing (SS), w/o fittings, 15 cm, 0.17 mm id	5021-1817
Flexible tubing (SS), w/o fittings, 10.5 cm, 0.12 mm id	5021-1820
Flexible tubing (SS), w/o fittings, 15 cm, 0.12 mm id	5021-1821
Detector Lamps Deuterium lamp for DAD	2140-0590
Tungsten lamp	G1103-60001
Deuterium lamp for VWD	G1314-60100
HPLC Column Kits Fast Eclipse XDB Method Development Kit	5183-4627
Fast Stablebond Method Development Kit	5183-4625
RP-Method Development Kit - 4 mm id	5063-6516
RP-Method Development Kit - 2 mm id	5063-6529
Traditional Eclipse XDB Method Development Kit	5183-4626
Traditional Stablebond Method Development Kit	5183-4624
ZORBAX Starter Kit, 5 µm, C18	5183-2021
ZORBAX Starter Kit, 5 μm, C8	5183-2022

Visit www.agilent.com/chem

#### Choose the system that meets your needs

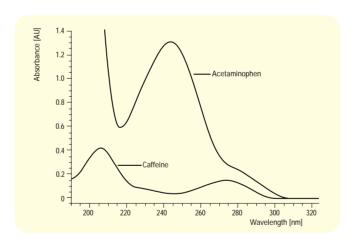
# A variety of systems to meet your application needs

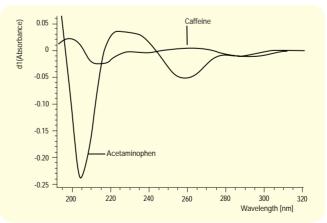
The Agilent 8453 is the most productive UV-Visible spectroscopy system available. You'll get more work done in less time with its combination of ease of use, fast spectral acquisition, fast data evaluation, report generation and automation. A full range of sampling accessories (including sipper, autosampler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

#### **Dissolution Testing System**

- · Maximum flexibility and productivity.
- Scalable sampling from manual off-line through fully automated on-line 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.	
8453 OO/PV Tests discrete subsystems and integrated testing of complete instrument.	H4036A
Accessories Peltier Temperature Controller	89090A
External Temperature Sensor	89090A #200
Eight-Position Multicell Transport	G1120A
Automated Sipper System for 8453	89068D
XY Autosampler	G1811A
Thermostattable Cell Holder	89054A
Cell Stirring Module	89055A
8453 Lamps Deuterium lamp assembly	2140-0605





Absorbance spectra (top) and first-order derivatives (bottom)

#### Software for the 8453 UV-Visible Spectrophotometer

#### Software for Agilent 8453 and 8452 Spectrophotometers

The Agilent ChemStation for UV-Visible spectroscopy provides instrument control, data acquisition and data evaluation for the Agilent 8453 spectrophotometers. Task-based graphical user interfaces make the software very easy-to-use.

#### **General Purpose Software**

Agilent ChemStation general purpose software for UV-Visible spectroscopy allows control of instrument and accessories and standard general data features

The general purpose software controls the 8453 and 8452 spectrophotometers and accessories. It includes all the functionality you need for general purpose and routine testing and is perfect for QA/QC labs. Featuring a highly interactive graphical user interface, it's more intuitive and easier to learn and use than ever. Includes an extensive on-line help system for tutorial assistance and how-to instructions.

#### **Advanced UV-Visible Software**

This add-on software provides a more flexible system for research and methods development, with easy transfer of the methodologies to the QA/QC lab. It includes advanced capabilities such as:

- · Multi-component analysis.
- · Method optimization tools.
- · Confirmation analysis.
- · Macro programming.
- Advanced automation.
- Advanced spectral processing and data analysis functions.

#### **Biochemical Analysis Software**

This add-on software is designed for the needs of biochemists. It includes standard methods for qualitative and quantitative analysis of nucleic acids and proteins, single and multicell kinetics with various rate calculations. Add the optional Peltier temperature controller to perform thermal denaturation studies such as DNA melt testing and protein unfolding.

# Agilent ChemStation dissolution testing software

A dedicated pharmaceutical application software for the Agilent 8453 spectrophotometer for dissolution testing.

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 on-line dissolution testing capabilities to the general purpose software.	G1118AA
UV-Visible ChemStation Software Upgrade	G1102AA
Dissolution Testing Software Upgrade	G1810AA
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

# Security Pack for UV-Visible ChemStation

Modifies advanced and dissolution testing mode to support the requirements for electronic records and signatures (21 CFR Part 11).

### 2100 Bioanalyzer

The first commercially available lab-on-a-chip product your personal assistant in life science

The Agilent 2100 bioanalyzer is a unique analysis tool capable of handling nucleic acids, proteins, and cells on one platform. The specific applicability to certain sample classes is based on the use of kits that include sample-specific reagents and chips. LabChip® kits for a variety of RNA, DNA, protein and cell assays are available.

Together with the LabChip kits, developed by Caliper Technologies Corp., the Agilent 2100 bioanalyzer integrates

sample handling

separation and detection

and data analysis within a single, compact system.

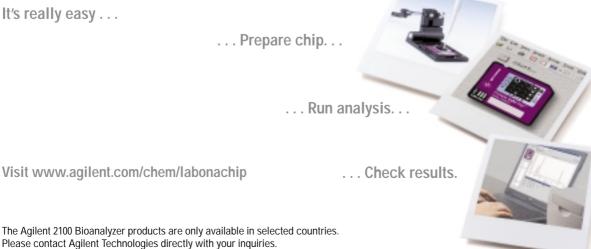
#### With lab-on-a-chip...

- · Miniaturized fluid pathways give shortened run times
- · Micro-fabricated chips yield better reproducibility than conventional technologies
- · Versatile chip design enables flexible experiment design on one system
- · Microscale format minimizes sample use



DESCRIPTION	PRODUCT NO
Agilent 2100 Bioanalyzer System	G2940BA
Includes 2100 bioanalyzer, HP PC and color printer, bioanalyzer system software,	
vortex mixer with chip adapter, and startup accessories.	
With startup service and operational services.	
Agilent 2100 Bioanalyzer Multi-Instrument System	G2942BA
Includes 2100 bioanalyzer, HP PC and color printer, RS 232 4-port card,	
bioanalyzer system software, vortex mixer with chip adapter,	
and startup accessories. With startup service and operational services.	
Agilent 2100 Bioanalyzer Laptop System	G2943BA
Includes 2100 bioanalyzer, HP Omnibook and color printer,	
bioanalyzer system software, vortex mixer with chip adapter,	
and startup accessories. With startup service and operational services.	
Agilent 2100 Bioanalyzer Instrument	G2938B
Includes chip priming station, test chip kit, setup poster,	
site and safety manual. Additional instrument for multi-instrument operation.	
Cell Assay Extension	G2944AA
Enables simple flow cytometric analysis with the Agilent 2100 bioanalyzer.	
Includes pressure cartridge, cell fluorescence software,	
cell fluorescence checkout kit, and cell test chip kit.	
With startup service and operational service.	
Agilent 2100 Bioanalyzer Software Package	G2941AA
Includes bioanalyzer system software. Only needed for use with	
the Agilent 2100 bioanalyzer instrument (G2938B) if ordered stand-alone.	
With start-up service and operational services.	
Agilent 2100 Bioanalyzer Data Organizer	G2945AA
Software for a data storage and retrieval application with	
web-based search capability. For data files generated	
with the Agilent 2100 bioanalyzer.	

It's really easy . . .



### Kits, Accessories and Consumables for the Agilent 2100 Bioanalyzer



# Ordering options for total flexibility

The Agilent 2100 Bioanalyzer is supplied with operating software, PC, printer and a variety of accessories.

#### Single bioanalyzer system

A simple PC controlling a single 2100 bioanalyzer unit.

#### Multi bioanalyzer system

A powerful PC with capabilities to control up to four 2100 bioanalyzer units.

#### Laptop bioanalyzer system

A laptop controlling a single 2100 bioanalyzer, saving valuable bench space.



DESCRIPTION	PRODUCT NO.
RNA 6000 Nano LabChip Kit  For analysis of messenger and total RNA. Kit includes reagents, supplies, 25 LabChips, 2 cleaning chips, 1 syringe, and reagent kit guide. A lower marker is included with the RNA Nano reagents.  Note: For quantitation of RNA samples, an RNA 6000 Ladder (cat # 7152) must be purchased from Ambion, Inc.	5065-4476
Ambion RNA Ladder 3 vials RNA ladder - 20 µl aliquots. To be ordered from Ambion Inc.	Ambion Cat # 7152
DNA 500 LabChip Kit  For sizing and quantitation of dsDNA fragments from 25 to 500 bp.  Kit includes reagents, supplies, 25 LabChips, 1 cleaning chip, 1 syringe, and reagent kit quide.	5064-8284
DNA 1000 LabChip Kit  For sizing and quantitation of dsDNA fragements from 25 to 1000 bp.  Kit includes reagents, supplies, 25 LabChips, 1 cleaning chip, 1 syringe, and reagent kit guide.	5065-4449
DNA 7500 LabChip Kit  For sizing and quantitation of dsDNA fragments from 100 to 7500 bp.  Kit includes reagents, supplies, 25 LabChips, 1 cleaning chip, 1 syringe, and reagent kit quide.	5064-8230
DNA 12000 LabChip Kit For sizing of dsDNA fragments from 100 to 12000 bp. Kit includes reagents, supplies, 25 LabChips, 1 cleaning chip, 1 syringe, and reagent kit guide.	5064-8231
Protein 200 Plus LabChip Kit For sizing and analysis of proteins from 14 to 200 kD. Kit includes reagents, supplies, 25 LabChips, 1 cleaning chip, 1 syringe and reagent kit guide.	5065-4480
Cell Fluorescence LabChip Kit For analysis of fluorescence parameters of cell samples. Includes reagents, 25 LabChips, and reagent kit quide.	5065-4488
Cell Fluorescence Checkout Kit For testing proper cell assay operation. Includes reagents, 7 Checkout LabChips, red beads, blue beads, and reagent kit guide.	5065-4486
Test Chip Bundle Used to aid in instrument troubleshooting and diagnosis. Includes 5 leak current test chips, 1 autofocus test chip, 1 electrode/diode test chip.	G2938-68100
16-Pin Cartridge Removable electrode cartridge containing 16-pin electrode assembly configured to fit in the wells of a LabChip. For molecular assays.	5064-8244
16-Pin Bayonet Cartridge Removable cartridge with detachable 16-pin electrode assembly for easy cleaning. Pin set layout identical with 16-pin cartridge. For molecular assays.	5065-4413
Pressure Cartridge Removable cartridge with pressure adapter. For use with an additional Agilent 2100 bioanalyzer (G2938B) in a multi-instrument system equipped with the Cell Assay Extension (G2944AA).	5065-4492
Chip Priming Station Used to load gel matrix into a chip with a syringe provided with each LabChip kit. Includes priming station, stop watch and 2 syringe clips.	5065-4401
Vortex Mixer Adapter Replacement part for IKA vortexer. Foam insert and plastic head mount for vortexer. Designed to hold chip firmly in place while vortexing.	5022-2190
Cell Test Chip Kit Includes cell autofocus chip and documentation.	G2938-68200
Adjustable Clip Used together with syringe to apply defined pressure for chip priming.	5042-1398
Gasket Kit for Chip Primimg Station Includes 1 syringe adapter, 10 gaskets and 1 mounting ring.	G2938-68716
Fuse for Power Supply 1A/250 V	2110-0007
RS 232 Connector Cable  Pressure Adapter Kit Includes 1 mounting ring and 5 pressure adapters with gaskets.	G2938-81605 5065-4478

### **Microarray Scanner**

#### Agilent's automated DNA Microarray Scanner

Agilent's next generation microarray scanner introduces a number of quality features for high throughput analysis of industry standard, 1" x 3", glass microarray slides. Its integrated platform provides sensitive and quantitative analysis of microarrays offering researchers a comprehensive, flexible and convenient approach to analyze microarrays for gene expression.



# Sensitive, rapid, high resolution scanning

- 48-slot carousel for high throughput.
- · State-of-the-art 20mW lasers.
- · Simultaneous dual color scans.
- · Rapid scans typically 8 minutes.
- · Integrated bar code reader.
- Industry first dynamic auto focus for optimum microarray imaging.

DESCRIPTION	PRODUCT NO.
Microarray Scanner Includes microarray scanner, 48 position carousel, 50 slide holders, Feature Extraction and Analysis software, PC data system, system install, familiarization.	G2565AA
Scanner Carousel Includes 48 position carousel.	G2565AA #001
Scanner Slide Holder Kit Includes 25 slide holders.	G2565AA #002
Upfront Extended Warranty, 1 year	G2565AA #11K
Upfront Extended Warranty, 2 years	G2565AA #11L

### **Catalog Microarrays**

### Consistent, quick and complete Catalog Microarrays



As an industrial-scale manufacturer, Agilent is in a position to provide QC qualified, high content microarrays on a continuing basis. Agilent's ongoing program to develop a series of pre-made, off-the-shelf microarrays, packaged as ready to go kits has started with human catalog microarrays and will be followed by a variety of additional host organism catalog microarrays.

DESCRIPTION	PRODUCT NO.
Human 1 cDNA Microarray Kit Includes four microarrays (on two 1" x 3" slides) and deposition hybridization buffer.	G4100A
Human 2 cDNA Microarray Kit	G4101A
Reagents Fluorescent Direct Label Kit	G2557A

#### Human 1 and 2 cDNA Microarray Kit

Our cDNA gene survey microarrays have many unique Incyte cDNA clones (12,000 or more different features). As a result, researchers can assay the expression level for many Human genes in one experiment. Kits include:

- microarrays to assay a specific biological system;
- hybridization reagents necessary for the assay;
- · a complete protocol; and
- a compact disk containing information identifying the features on the microarrays.

# Let us configure a system that is right for you . . . from standalone workstations to complete, secure networked data systems

#### **Cerity Networked Data Systems**

The Cerity networked data system family of software provides userspecific applications that model your everyday tasks, making every step more efficient:

### Cerity for Pharmaceutical QA/QC – designed to:

- · Adapt to the laboratory workflow.
- Follow 21 CFR Part 11, GLP, cGMP, GAMP, ISO 17025 and other regulations and quality standards.
- · Offer ease of compliance.
- Provide "Level 4" instrument control.
- · Boost productivity.
- Provide seamless integration into existing IT systems.
- Protect existing investments.

### Cerity for Chemical QA/QC – it features:

- Sample centered to support typical analytical processes efficiently.
- Access to the World Wide Web, letting you send out reports instantly.
- Secure and easy-to-understand information storage and retrieval, with everything that relates to an analysis stored together.
- Powerful enough to let you fully use all features of the high-performance Agilent 6850, 6890, and 3000 Micro GCs. Also allows control of the Agilent 5890 Series II GCs.

#### **ChemStation Plus Data Systems consisting of**

#### · ChemStore Client/Server

An optional component of Agilent ChemStation Plus providing a central secure data organization, review and reporting tool for chemical analysis results. It is available as a standalone solution or in a fully integrated client/server network running on an Oracle database.

#### ChemStation Plus Security Pack

Provides full support of 21 CFR Part 11 requirements for electronic records and electronic signatures by showing advanced data security and provides full data integration and change documentation in audit trails. It is available as a standalone solution or in a fully integrated client/server network running on an Oracle database.

#### · ChemAccess Client/Server

Offers a single approach to instrument control, data evaluation, reporting and automation as well as enhanced data security from anywhere on the network.

#### · Method Validation Pack

The Method Validation Pack offers a flexible and comprehensive result creation with all calculations, statistics and charts for method validation according to EP/JP/USP/ICH and ISO 17025.

DESCRIPTION	PRODUCT NO
Network Data Systems Cerity	
Method Validation Pack	G2184AA
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 G2183AA on another PC Includes manual, license and media. Supports 21 CFR part 11.	G2187AA
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 To execute on another PC.	G2186BA
ChemAccess Server Software	G1494A
ChemAccess 5 User Client Software	G1495A
12-port LAN Hub Allows up to twelve 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 6850 GC, 35900 A/D, and 1100 LC.	G1846A
Crossover Ethertwist Cable To connect ChemStation to a networked instrument. Includes10 ft. crossover wired ethertwist patch cable, category 5.	5183-4649
ChemStore Server Software	G1410A

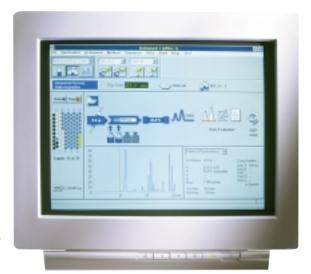
### **Multi-Technique ChemStation**

# The most comprehensive multi-technique software on the market

ChemStation covers a wide range of analytical instrument control allowing you to use just one software package to do multiple analytical techniques.

# Multi-Technique data handling

 Eliminates the need to train users on a different data station for each technique. Multi-Technique ChemStation provides comprehensive control, automation and data handling for LC, GC, CE and A/D interfaces to collect data from non-Agilent instruments.



#### Modular software

 Configure the correct number of instruments for your needs now – and expand in the future. Data analysis only software available to evaluate data off-line.

#### **Automation**

- Total instrument control and system automation provide the flexibility to easily change conditions with each method.
- Automatic recalibration and run time performance allow 24-hour productivity.

#### **GLP Compliance**

- · Agilent certificate of validation.
- Password protection.
- System verification test.
- · Available OQ/PV procedures.
- Chromatographic conditions and data are logged in secured files to assure data integrity.

#### Flexible reporting capabilities

 Many standard reports as well as the ability to create custom reports for your specific needs.

#### Dynamic data exchange

Ability to export data to Microsoft®
 Excel or other software of your choice for analysis and reporting.

#### Networking

- Compatible with PC networks that support Microsoft® Windows.
- LAN interface to Agilent instruments
- Available ChemAccess Client/Server system.

#### **Industry standard**

Uses industry standard formats, including the following:

- · Microsoft® Windows
- Analytical Data Interchange (AIA)
- · Windows Metafile (WMF)
- Open Database Connectivity (ODBC)

### **Data handling**

Software includes installation and familiarization





ChemStation bundles include software, PC, printer and monitor.

Data handling and control for Agilent chromatographic instruments

Note: The following software requires a 200 MHZ PC with 64MB of RAM minimum.

DESCRIPTION	PRODUCT NO
GC	0.0070.8.8
ChemStation Software for one GC	G2070AA
ChemStation software for additional GC	G2071AA
GC ChemStation Software License to execute ChemStation on another PC. Includes license and user information only.	G2075AA
A/D ChemStation software for A/D	G2072AA
ChemStation software for additional A/D	G2073AA
A/D ChemStation Software License to execute ChemStation on another PC. Includes license and user info only.	G2077AA
HPLC HPLC 2D ChemStation Software	G2170AA
ChemStation Software for additional 2D LC	G2171AA
HPLC 2D license to execute on another PC ncudes license and user information only.	G2175AA
HPLC ChemStation Spectral SW Module Adds capability to evaluate DAD and FLD spectra to an HPLC 2D ChemStation.	G2180AA
HPLC 3D Spectral Module license to execute on another PC. ncludes the license and the user information only.	G2185AA
CE ChemStation software for CE Systems	G1601A
ChemStation software for additional CE	G2172AA
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
HPLC ChemStation Data Analysis Software Includes data evaluation only of chromatographic and .C spectral data.	G2190AA
ChemStation Bundles Single Instrument GC ChemStation	G1875AA
High Performance GC ChemStation	G1876AA
Single Instrument LC 2D ChemStation	G1317A
Single Instrument LC 3D ChemStation	G1319A
Single Instrument A/D ChemStation	G2112AA

3396C
3395B
82350A
35900E
35900E #001
35900E #010
35900E #011

#### **Support Services**

# Flexible support services to give you exactly what you need

Agilent support services cover all of your Agilent chemical analysis hardware and software maintenance, troubleshooting, repair, compliance and educational needs. With these services, you can achieve:

- · Maximized instrument uptime.
- · High system productivity.
- Extended instrument life.
- · Fast problem resolution.



Special service bundles are designed to meet the specific chemical analysis instrument needs of various industries. These bundles contain essential services to keep your chemical analysis instruments in top condition for dependable operation. The special service bundles cost less than purchasing each service individually.

#### **Training Courses**

Agilent chemical analysis training courses help you get the most out of your investment by teaching you the skills you need to fully utilize your system's capabilities. More than 50 courses are offered, ranging from introductory levels to in-depth hands-on learning experience. For up-to-date training information and 24-hour a day registration, connect to our web site at www.agilent.com/chem.



#### **Pharmaceutical Bundle**

For the pharmaceutical, agricultural and other industries that must comply with rigorous quality and regulatory requirements.



- Telephone Support to Isolate and Resolve Hardware Problems – included without charge
- At-Your-Site Service with consumables used during repair
- · Annual On-Site Preventive Maintenance
- Annual Operational Qualification/Performance Verification

#### **Petrochemical Bundle**

For the specific needs of the petroleum, chemical, petrochemical and other industries not subject to pharmaceutical regulatory compliance.



- Telephone Support to Isolate and Resolve Hardware Problems – included without charge
- At-Your-Site Service with consumables used during repair
- · All Off-Site Instrument Repair Services
- Annual On-Site Preventive Maintenance

#### **Environmental Bundle**

For the environmental, clinical and other laboratories that depend on mass spectrometers for sample analysis.



- Telephone Support to Isolate and Resolve Hardware Problems – included without charge
- At-Your-Site Service with consumables used during repair
- · All Off-Site Instrument Repair Services
- · Annual On-Site Preventive Maintenance
- · Annual Mass Spectrometer Ion Source Cleaning