

# Agilent 7800/7850/7900/8900 ICP-MS Supplies

## Agilent supplies for Agilent instruments

Agilent is committed to optimizing your laboratory's productivity. This reference guide shows the most commonly ordered supplies and parts for the Agilent single and triple Quadrupole ICP-MS. Keep this list so you can quickly find the supplies you need and minimize instrument downtime.



Sampler Cones and Supplies (suits all models)	Part Number
Ni-tip Cu base sampler cone care package Includes 2pcs Ni sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	<a href="#">5067-0294</a>
Pt-tip Cu base sampler cone care package Includes 2pcs Pt sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	<a href="#">5067-0296</a>
Ni-tip, Ni-plated base sampler cone care package Includes 2pcs Ni-plated sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	<a href="#">5067-0295</a>
Pt-tip Nickel-plated sampler cone care package Includes 2pcs Pt-tip Ni-plated sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	<a href="#">5067-0297</a>

Sampler Cones and Supplies (continued)	Part number
Gasket, graphite, for sampling cone, 3/pk	<a href="#">G3280-67009</a>
Sampler cone, Ni-tip with Cu base (std for x-lens)	<a href="#">G3280-67040</a>
Sampler cone, Pt-tip with Cu base (standard for s-lens/ semiconductor configuration)	<a href="#">G3280-67036</a>
Sampler cone, Ni-tip with Ni-plated Cu base (for samples containing >0.5% HCl and when using maximum HMI aerosol dilution)	<a href="#">G3280-67061</a>
Sampler cone, Pt-tip with Ni-plated Cu base (for aggressive acid matrix especially HCl, HF and HClO <sub>4</sub> )	<a href="#">G3280-67142</a>
Magnifier tool	<a href="#">5190-9614</a>
Cotton swabs, 1pk of 100pcs	<a href="#">9300-2574</a>

### Skimmer Cones

Selection by ion lens configuration and ICP-MS series

Description	x-lens	x-lens	s-lens (semicon)	s-lens (semicon)
	7800/7850	7900/8900	7900	8900
Nickel	<a href="#">G3280-67041</a>	<a href="#">G8400-67200</a>	<a href="#">G3280-67066</a>	<a href="#">G3666-67421</a>
Platinum, with copper base	<a href="#">G3280-67060</a>	<a href="#">G8400-67201</a>	<a href="#">G3280-67064</a>	<a href="#">G3666-67401</a>
Platinum, with nickel base	<a href="#">G3280-67063</a>	<a href="#">G8400-67202</a>	<a href="#">G3280-67065</a>	<a href="#">G3666-67411</a>

Note: Shaded cells denote standard configuration

### Skimmer Bases

Selection first by ion lens configuration and ICP-MS series, then by the Interface cone material (Nickel, Ni or Platinum, Pt)

Description	x-lens	x-lens	x-lens	s-lens (semicon)	s-lens (semicon)
	7800/7850	7900	8900	7900	8900
Stainless steel (use with Ni cones)	<a href="#">G3280-60608</a>	<a href="#">G8400-60624</a>	<a href="#">G3666-60301</a>	<a href="#">G8400-60627</a>	-
Brass (use with Pt cones)	<a href="#">G3280-60621</a>	<a href="#">G8400-60625</a>	<a href="#">G3666-60311</a>	<a href="#">G8400-60626</a>	<a href="#">G3666-60401</a>

Note: Shaded cells denote standard configuration

Nebulizers and Supplies	Part Number
MicroMist nebulizer, borosilicate glass, U-series, standard for Agilent 7800/7850/7900 ICP-MS	<a href="#">G3266-80004</a>
UniFit sample connector, for U-series MicroMist nebulizer, 0.5 mm id, 10/pk	<a href="#">G3266-80012</a>
UniFit sample connector, for U-series MicroMist nebulizer, 0.25 mm id, 10/pk	<a href="#">G3266-80013</a>
UniFit sample connector, for U-series MicroMist nebulizer, 0.75 mm id, 10/pk	<a href="#">G8010-80035</a>
MicroMist nebulizer, with PEEK gas connector. Suits Agilent 8900 ICP-MS	<a href="#">G3266-80005</a>
Nebulizer gas fitting, with PEEK ratchet connector, 1/ pk. Suits MicroMist nebulizer with PEEK gas fitting used with the Agilent 8900 ICP-MS	<a href="#">G3266-80017</a>
MicroFlow nebulizer, PFA, 200 µL/min, self-aspirating	<a href="#">G3139-65100</a>
MicroFlow nebulizer, with I-AS probe, PFA, 200 µL/min, self-aspirating	<a href="#">G3139-65102</a>
Tubing	Part Number
Easy-Fit Peristaltic pump tubing, standard for sample uptake, recommended for aqueous, acid or alkaline matrix, 1 pack of 12 pcs.	<a href="#">5005-0020</a>
Easy-Fit Peristaltic pump tubing, standard for Internal Standard uptake, recommended for aqueous, acid or alkaline matrix, 1 pack of 12 pcs.	<a href="#">5005-0021</a>
Easy-Fit Peristaltic pump tubing, long-life, standard for spray chamber drain, 1 pack of 12 pcs	<a href="#">5005-0022</a>
Easy-Fit Peristaltic pump tubing, optional high matrix sample and ISTD uptake, recommended for aqueous, acid or alkaline matrix, 1 pack of 12 pcs.	<a href="#">5005-0023</a>
Easy-Fit Peristaltic pump tubing, optional for organic solvent high matrix sample and ISTD uptake, 1 pack of 12 pcs	<a href="#">5005-0026</a>
Easy-Fit Peristaltic pump tubing, optional for organic solvent matrix internal standard uptake, 1 pack of 12 pcs.	<a href="#">5005-0027</a>
Easy-Fit Peristaltic pump tubing, optional for organic solvent matrix sample uptake, 1 pack of 12 pcs.	<a href="#">5005-0025</a>
Sample tubing, PFA, for sample introduction, 0.5 mm id, 1.6 mm od, 5 m	<a href="#">G1820-65105</a>
Online internal standard addition kit for ICP-MS	<a href="#">G3280-60590</a>
Drain tubing, for use between peri-pump tubing and drain tank), 4.0 mm id, 2.5 m	<a href="#">G1820-65515</a>
Tubing, Tygon, for drain to drain tank, 3 m	<a href="#">G3280-60077</a>

## Consumables for your ICP-MS

For a complete list of consumables suitable for your ICP-MS follow the links below—selecting your ICP-MS model and lens type/configuration.

Internet connection and Agilent.com Order Center account registration required to access “Favorite Products Lists”

[7800 \(G8421A/N8421A\)](#)

[7850 \(G8422AA/N8422AA\)](#)

[7900 with x-lens \(G8403A/N8403A\)](#)

[7900 with s-lens \(G8403A #200\)](#)

[8900 with x-lens \(G3665A including #100\)](#)

[8900 with s-lens \(G3665A #200\)](#)

Spray Chamber Supplies	Part Number
Spray chamber, quartz, double-pass, for Agilent 7800 ICP-MS (non-HMI/UHMI). Can be used with the Agilent 7850/7900/8900 ICP-MS when Ultra HMI capability is not required.	<a href="#">G3280-80008</a>
Endcap, for spray chamber	<a href="#">G3280-60008</a>
Connector tubing, quartz straight, between spray chamber and torch	<a href="#">G3270-80025</a>
Connector tubing, quartz, with dilution port	<a href="#">G3270-80024</a>
Spray chamber, quartz, for UHMI, Agilent 7850/7900/8900 ICP-MS. Required when using Ultra HMI capability. For operation without Ultra HMI capability, use (p/n G3280-80008).	<a href="#">G8400-67150</a>
Clamp, torch ball joint connector, secures ball joint connector between torch and spray chamber	<a href="#">G8400-60327</a>
Endcap retainer ring for spray chamber for p/n G8400-67150	<a href="#">G8400-40200</a>
Dilution nozzle for UHMI, for p/n G8400-67150	<a href="#">G8400-67026</a>
Drain tubing assembly (tubing between spray chamber and peristaltic pump, includes two connectors, bushing and tubing)	<a href="#">G3280-60555</a>
Torch	Part Number
Torch, quartz, 2.5 mm id, standard torch	<a href="#">G3280-80053</a>
Torch, quartz, tapered, 1.5 mm id, for use with organic solvents	<a href="#">G3280-80080</a>
Torch, quartz, tapered, 1.0 mm id, for use with highly volatile organic solvents	<a href="#">G3280-80081</a>
Torch bonnet, quartz	<a href="#">G1833-65421</a>
Shield plate, long life, platinum, for torch	<a href="#">G1833-65419</a>
Vacuum & Cooling System Supplies	Part Number
AVF Platinum oil for Agilent MS40+ foreline pump 1 L	<a href="#">X3760-64004</a>
Oil mist filter element for Agilent MS40+ (change at least annually)	<a href="#">G1960-80039</a>
Cool Clear, coolant fluid, 2 Gal/pk	<a href="#">5799-0037</a>

Easy-fit x-lens assemblies	Part Number
Easy-fit X-lens, single piece assembly, provided in clean packaging, ready to install. For direct replacement of 7800, 7850, 7700, and 8800 x-lens.	<a href="#">G3280-67200</a>
Easy-fit X-lens, single piece assembly, provided in clean packaging, ready to install. For direct replacement of 7900 x-lens.	<a href="#">G8400-67100</a>
Easy-fit X-lens, single piece assembly, provided in clean packaging, ready to install. For direct replacement of 8900 x-lens.	<a href="#">G3666-67700</a>

SPS 4 Autosampler Consumables	Part Number
<b>Racks and tubes</b>	
Standards rack, 5-position, (standard configuration). Provides 5 locations for 250 mL 60 mm od narrow neck sample containers.	<a href="#">G8410-40001</a>
Standards rack, 34-position (optional configuration). Provides 12 locations for 50 mL 30 mm od tubes and 22 locations for 18 mm od tubes. (Only supported with MassHunter software version 4.5 or greater)	<a href="#">G8410-40000</a>
Sample rack for 13 mm od tubes, 90 positions, 1/pk	<a href="#">6610026400</a>
Sample rack for 16 mm od tubes, 60 positions, 1/pk	<a href="#">6610025400</a>
Sample rack for 20 mm od tubes, 40 positions, 1/pk	<a href="#">6610025500</a>
Sample rack for 25 mm od tubes, 24 positions, 1/pk	<a href="#">6610026500</a>
Sample rack for 30 mm od tubes (50 mL centrifuge tubes), 21 positions, 1/pk	<a href="#">6610026600</a>
Rack overlay for 60-position sample rack (2 per rack recommended), for Agilent SPS 4 autosampler. Allows 13 mm and some 16 mm od tubes to be used in 60-position rack.	<a href="#">6610026100</a>
Rack overlay for 40-position sample rack (2 per rack recommended), for Agilent SPS 4 autosampler. Allows 18 mm od tubes to be used in 40-position rack	<a href="#">6610026000</a>
Bottle 250 mL for 5-position standards rack, 1/pk	<a href="#">5043-0064</a>
Centrifuge tubes, polypropylene, 5 to 50 mL at 2.5 mL intervals, 500/pk, screw cap, 29 mm od	<a href="#">190065200</a>
Polypropylene tubes, 17 mm od, 16.5 mL, 1,000/pk	<a href="#">00000001600L</a>
<b>Peristaltic pump tubing for the rinse pump</b>	
Peristaltic pump tubing, PVC SolvaFlex, 3-bridged, gray/gray tabs, for Agilent SPS 4 when pumping acidic or aqueous rinses, 12/pk	<a href="#">3710049000</a>
Peristaltic pump tubing, Santoprene, 3-bridged, gray/gray tabs, for ketone-based solvents on AA, MP-AES, and ICP-OES instruments, 6/pk	<a href="#">3710057500</a>
Peristaltic pump tubing, FPM, 3-bridged, black/black tabs with flared ends, for use with Agilent SPS 4 autosampler when pumping aromatic organic samples, 12/pk	<a href="#">3710069100</a>
<b>Spare probes</b>	
SPS 4 probe, 0.25 mm id, red marker, inert, FEP sleeved, 1/pk	<a href="#">G8410-80100</a>
SPS 4 probe, 0.5 mm id, yellow marker, inert, FEP sleeved, 1/pk (standard probe for ICP-MS)	<a href="#">G8410-80101</a>
SPS 4 probe, 0.8 mm id, green marker, inert, FEP sleeved, 1/pk	<a href="#">G8410-80102</a>
SPS 4 sample probe with red marker, 1/pk. Required when using the Agilent SPS 4 autosampler with microtiter tray for sampling from a 96 position well plate. Requires, but does not include, the well plate tray adaptor kit or any compatible well plates.	<a href="#">G8410-80105</a>

SPS 4 Autosampler Options	Part Number
High uptake volume rinse kit for Agilent SPS 4 autosampler to connect to ISIS 3. Allows rinse uptake rate to be increased to 25 mL/min.	<a href="#">G8410-68260</a>
SPS 4 rinse tube kit, for low volatile organic solvents in rinse station. Includes 1 m capillary, 3-bridged gray/gray PVC SolvaFlex (4 pump tubes), barb connector, 2.5 -1.5 mm, solvent-resistant tubing for inlet + outlet	<a href="#">G8410-68261</a>
Pump drain kit for Agilent SPS 4 autosampler. Allows the liquid overflow to be pumped from the rinse station. Includes wide-bore tubing, purple/white tabs (4 pump tubes), barb connectors, 2.5 m PVC SolvaFlex to connect to a remote pump (not supplied).	<a href="#">G8410-68262</a>
Well plate startup kit for Agilent SPS 4 autosampler. Allows the SPS 4 to be adapted to sample from 96-well plates. Includes well plates (10/pk), well plate adapter, and sample probe. Only supported with the ICP-MS MassHunter software	<a href="#">G8410-68270</a>

Tuning Solutions	Part Number
ICP-MS stock tuning solution: Li, Y, Ce, Tl, and Co; 100 mL, 10 mg/L; matrix 2% HNO <sub>3</sub>	<a href="#">5188-6564</a>
ICP-MS stock tuning solution: Li, Mg, Y, Ce, Tl, Co; 100 mL, 10 mg/L; matrix 2% HNO <sub>3</sub>	<a href="#">5190-0465</a>
Tuning solution: Li, Y, Ce, Tl, and Co; 2 x 500 mL, 10 µg/L; matrix 2% HNO <sub>3</sub>	<a href="#">5184-3566</a>
PA tuning solution kit: 2 x 100 mL bottles Tuning 1: 20 ppm each of Zn, Be, Cd, As; 10 ppm each of Ni, Pb, Mg; 5 ppm each of Tl, Na Al, U, Cu, Th, Ba, Co, Sr, V, Cr, Mn, 6Li, Sc, In, Lu, Bi; 2.5 ppm each of Y, Yb; matrix 2 to 5% HNO <sub>3</sub> Tuning 2: 10 ppm each of Mo, Sb, Sn, Ge, Ru, Pd; 5 ppm of Ti, Ir; matrix 10% HCl/1% HNO <sub>3</sub> /trace HF	<a href="#">5188-6524</a>

Operating Supplies Kits*	Part Number
Basic supplies kit for Agilent 7800/7850/7900 and 8900 ICP-MS, fitted with x-lens and roughing pump using AVF Platinum oil.* Includes: peristaltic pump tubes for sample, white/white, 12/pk; peristaltic pump tubes for waste, yellow/blue, 12/pk; peristaltic pump tubes for internal standard, blue/orange, 12/pk; PFA sample tubing, 0.5 mm id, 1.6 mm od, 5 m; graphite gasket for sampling cone, 3/pk; rough pump oil, AVF Platinum, 1 L; and torch with 2.5 mm id injector.	<a href="#">G3280-67221</a>

\* For extra options and more information see Agilent publication: Spare Parts and Operating Supplies Kits for Agilent ICP-MS (p/n [5991-5006EN](#))

10 µg/mL Single Element ICP-MS Standards Supplied in 100 mL bottles	Part Number
Aluminum (Al) in 2% HNO <sub>3</sub>	<a href="#">5190-8561</a>
Antimony (Sb) in 1% HNO <sub>3</sub> , trace tartaric acid	<a href="#">5190-8562</a>
Arsenic (As) in 2% HNO <sub>3</sub>	<a href="#">5190-8563</a>
Barium (Ba) in 2% HNO <sub>3</sub>	<a href="#">5190-8564</a>
Beryllium (Be) in 2% HNO <sub>3</sub>	<a href="#">5190-8565</a>
Boron (B) in H <sub>2</sub> O	<a href="#">5190-8566</a>
Cadmium (Cd) in 2% HNO <sub>3</sub>	<a href="#">5190-8567</a>
Chromium (Cr) in 2% HNO <sub>3</sub>	<a href="#">5190-8568</a>
Copper (Cu) in 2% HNO <sub>3</sub>	<a href="#">5190-8569</a>
Iridium (Ir) in 2% HCl	<a href="#">5190-8570</a>
Lead (Pb) in 2% HNO <sub>3</sub>	<a href="#">5190-8571</a>
Lithium (Li) in 2% HNO <sub>3</sub>	<a href="#">5190-8572</a>
Lutetium (Lu) in 2% HNO <sub>3</sub>	<a href="#">5190-8573</a>
Manganese (Mn) in 2% HNO <sub>3</sub>	<a href="#">5190-8574</a>
Mercury (Hg) in 5% HNO <sub>3</sub>	<a href="#">5190-8575</a>
Nickel (Ni) in 2% HNO <sub>3</sub>	<a href="#">5190-8576</a>
Platinum (Pt) in 5% HCl	<a href="#">5190-8577</a>
Scandium (Sc) in 2% HNO <sub>3</sub>	<a href="#">5190-8578</a>
Selenium (Se) in 2% HNO <sub>3</sub>	<a href="#">5190-8579</a>
Silver (Ag) in 2% HNO <sub>3</sub>	<a href="#">5190-8580</a>
Strontium (Sr) in 2% HNO <sub>3</sub>	<a href="#">5190-8581</a>
Terbium (Tb) in 2% HNO <sub>3</sub>	<a href="#">5190-8582</a>
Tin (Sn) in 5% HCl	<a href="#">5190-8583</a>
Uranium (U) in 2% HNO <sub>3</sub>	<a href="#">5190-8584</a>
Vanadium (V) in 5% HNO <sub>3</sub>	<a href="#">5190-8585</a>
Yttrium (Y) in 2% HNO <sub>3</sub>	<a href="#">5190-8586</a>
Zinc (Zn) in 2% HNO <sub>3</sub>	<a href="#">5190-8587</a>

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For a complete list of Agilent atomic spectroscopy supplies, including AA lamps and supplies for AA, ICP-OES, ICP-MS and MP-AES products, visit: [www.agilent.com/chem/atomic](http://www.agilent.com/chem/atomic)

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Multi-Element Calibration Standards	Part Number
Multi-element calibration standard 1, 100 mL: 10 mg/L of Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, Y, Yb; matrix 5% HNO <sub>3</sub>	<a href="#">8500-6944</a>
Multi-element calibration standard 2A, 100 mL: 10 mg/L of Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn; matrix 5% HNO <sub>3</sub>	<a href="#">8500-6940</a>
Multi-element calibration standard 3, 100 mL: 10 mg/L of Sb, Au, Hf, Ir, Pd, Pt, Rh, Ru, Te, Sn; matrix 10% HCl/1% HNO <sub>3</sub>	<a href="#">8500-6948</a>
Multi-element calibration standard 4B, 100 mL: 10 mg/L of B, Ge, Mo, Nb, P, Re, S, Si, Ta, Ti, W, Zr; matrix H <sub>2</sub> O/trace HF	<a href="#">8500-6942</a>

Semiquantitative Standards Supplied in 100 mL bottles	Part Number
ICP-MS semiquantitative calibration standard 1. Contains: 10 µg/mL Ag, Al, As, Ba, Bi, Ca, Cd, Ce, Dy, Er, Eu, Ga, Gd, Ho, La, Lu, Mg, Na, Nd, P, Pb, Pr, Rb, Sc, Se, Sm, Sr, Tb, Th, Tl, Tm, U, Y, Yb; matrix 40% aqua regia	<a href="#">5190-8594</a>
ICP-MS semiquantitative calibration standard 2. Contains: 10 µg/mL Au, B, Be, Co, Cr, Cu, Fe, Ge, Hf, Ir, K, Li, Mn, Mo, Nb, Ni, Os, Pd, Pt, Re, Rh, Ru, Sb, Si, Sn, Ta, Te, Ti, V, W, Zn, Zr; matrix 40% aqua regia, trace HF	<a href="#">5190-8595</a>

Environmental Standards	Part Number
Environmental calibration standard, 100 mL; 1,000 mg/L of Fe, K, Ca, Na, Mg; 10 mg/L of Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn, Th, U; matrix 10% HNO <sub>3</sub>	<a href="#">5183-4688</a>
Initial calibration verification standard, 100 mL; 1,000 mg/L of Fe, K, Ca, Na, Mg, Sr; 10 mg/L of Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn, Th, U; matrix 5% HNO <sub>3</sub>	<a href="#">5183-4682</a>
Internal standard mix, 100 mL; 100 ppm of 6Li, Sc, Ge, Rh, In, Tb, Lu, Bi; matrix 10% HNO <sub>3</sub>	<a href="#">5188-6525</a>
Internal standard mix, 100 mL; 10 mg/L of 6Li, Sc, Ge, Y, In, Tb, Bi; matrix 5 to 10% HNO <sub>3</sub>	<a href="#">5183-4681</a>
Environmental spike mix, 100mL; 1,000 mg/L Fe, K, Ca, Na, Mg, 100 mg/L Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn, U; matrix 5% HNO <sub>3</sub>	<a href="#">5183-4687</a>
6020 interference check solution A, 100 mL: 20,000 ppm of Cl; 3,000 ppm of Ca; 2,500 ppm each of Fe, Na; 2,000 ppm of C; 1,000 ppm each of Al, Mg, P, K, S; 20 ppm each of Ti, Mo; matrix 5% HNO <sub>3</sub> /trace HF	<a href="#">5188-6526</a>
6020 interference check solution B, 100 mL: 20 ppm each of Cr, Co, Cu, Mn, Ni, V; 10 ppm each of As, Cd, Se, Zn; 5 ppm of Ag; matrix 5% HNO <sub>3</sub>	<a href="#">5188-6527</a>