

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	5067-0294
Pt-tip Cu base sampler cone care package Includes 2pcs Pt sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	5067-0296
Ni-tip, Ni-plated base sampler cone care package Includes 2pcs Ni-plated sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	5067-0295
Pt-tip Nickel-plated sampler cone care package Includes 2pcs Pt-tip Ni-plated sampler, 1pc magnifier tool, 1pk graphite gaskets, 1pk cotton swabs	5067-0297

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

Skimmer Cones

Selection by ion lens configuration and ICP-MS series

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

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

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	G3266-80004
UniFit sample connector, for U-series MicroMist nebulizer, 0.5 mm id, 10/pk	G3266-80012
UniFit sample connector, for U-series MicroMist nebulizer, 0.25 mm id, 10/pk	G3266-80013
UniFit sample connector, for U-series MicroMist nebulizer, 0.75 mm id, 10/pk	G8010-80035
MicroMist nebulizer, with PEEK gas connector. Suits Agilent 8900 ICP-MS	G3266-80005
Nebulizer gas fitting, with PEEK ratchet connector, 1/ pk. Suits MicroMist nebulizer with PEEK gas fitting used with the Agilent 8900 ICP-MS	G3266-80017
MicroFlow nebulizer, PFA, 200 µL/min, self-aspirating	G3139-65100
MicroFlow nebulizer, with I-AS probe, PFA, 200 µL/min, self-aspirating	G3139-65102

Tubing	Part Number
Peristaltic pump tubing, Tygon, 3-stop white/white, for sample introduction with 1.02 mm id, 40 cm, 12/pk	G1833-65569
Peristaltic pump tubing, for pumping internal standard with, 0.25 mm id, 2-stop blue/orange, 12/pk	G3280-67047
Peristaltic pump tubing, for spray chamber drain, Ismaprene 3-stop yellow/blue, 1.52 mm id, 40 cm, 12/pk	G1833-65570
Sample tubing, PFA, for sample introduction, 0.5 mm id, 1.6 mm od, 5 m	G1820-65105
Online internal standard addition kit for ICP-MS	G3280-60590
Drain tubing, for use between peri-pump tubing and drain tank), 4.0 mm id, 2.5 m	G1820-65515
Tubing, Tygon, for drain to drain tank, 3 m	G3280-60077

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 \(G8403A/N8403A #200\)](#)

[8900 with x-lens \(G3665A/N3665A including #100\)](#)

[8900 with s-lens \(G3665A/N3665A #200\)](#)

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.	G3280-80008
Endcap, for spray chamber	G3280-60008
Connector tubing, quartz straight, between spray chamber and torch	G3270-80025
Connector tubing, quartz, with dilution port	G3270-80024
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).	G8400-67150
Clamp, torch ball joint connector, secures ball joint connector between torch and spray chamber	G8400-60327
Endcap retainer ring for spray chamber for p/n G8400-67150	G8400-40200
Dilution nozzle for UHMI, for p/n G8400-67150	G8400-67026
Drain tubing assembly (tubing between spray chamber and peristaltic pump, includes two connectors, bushing and tubing)	G3280-60555

Torch	Part Number
Torch, quartz, 2.5 mm id, standard torch	G3280-80053
Torch, quartz, tapered, 1.5 mm id, for use with organic solvents	G3280-80080
Torch, quartz, tapered, 1.0 mm id, for use with highly volatile organic solvents	G3280-80081
Torch bonnet, quartz	G1833-65421
Shield plate, long life, platinum, for torch	G1833-65419

Vacuum System Supplies	Part Number
AVF Platinum oil for Agilent MS40+ foreline pump 1 L	X3760-64004
Oil mist filter element for Agilent MS40+ (change at least annually)	G1960-80039

SPS 4 Autosampler Consumables	Part Number
Racks and tubes	
Standards rack, 5-position, (standard configuration). Provides 5 locations for 250 mL 60 mm od narrow neck sample containers.	G8410-40001
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)	G8410-40000
Sample rack for 13 mm od tubes, 90 positions, 1/pk	6610026400
Sample rack for 16 mm od tubes, 60 positions, 1/pk	6610025400
Sample rack for 20 mm od tubes, 40 positions, 1/pk	6610025500
Sample rack for 25 mm od tubes, 24 positions, 1/pk	6610026500
Sample rack for 30 mm od tubes (50 mL centrifuge tubes), 21 positions, 1/pk	6610026600
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.	6610026100
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	6610026000
Bottle 250 mL for 5-position standards rack, 1/pk	5043-0064
Centrifuge tubes, polypropylene, 5 to 50 mL at 2.5 mL intervals, 500/pk, screw cap, 29 mm od	190065200
Polypropylene tubes, 17 mm od, 16.5 mL, 1,000/pk	00000001600L
Peristaltic pump tubing for the rinse pump	
Peristaltic pump tubing, PVC SolvaFlex, 3-bridged, gray/gray tabs, for Agilent SPS 4 when pumping acidic or aqueous rinses, 12/pk	3710049000
Peristaltic pump tubing, Santoprene, 3-bridged, gray/gray tabs, for ketone-based solvents on AA, MP-AES, and ICP-OES instruments, 6/pk	3710057500
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	3710069100
Spare probes	
SPS 4 probe, 0.25 mm id, red marker, inert, FEP sleeved, 1/pk	G8410-80100
SPS 4 probe, 0.5 mm id, yellow marker, inert, FEP sleeved, 1/pk (standard probe for ICP-MS)	G8410-80101
SPS 4 probe, 0.8 mm id, green marker, inert, FEP sleeved, 1/pk	G8410-80102
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.	G8410-80105

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.	G8410-68260
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	G8410-68261
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).	G8410-68262
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	G8410-68270

Tuning Solutions	Part Number
ICP-MS stock tuning solution: Li, Y, Ce, Tl, and Co; 100 mL, 10 mg/L; matrix 2% HNO ₃	5188-6564
ICP-MS stock tuning solution: Li, Mg, Y, Ce, Tl, Co; 100 mL, 10 mg/L; matrix 2% HNO ₃	5190-0465
Tuning solution: Li, Y, Ce, Tl, and Co; 2 x 500 mL, 10 µg/L; matrix 2% HNO ₃	5184-3566
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 ₃ Tuning 2: 10 ppm each of Mo, Sb, Sn, Ge, Ru, Pd; 5 ppm of Ti, Ir; matrix 10% HCl/1% HNO ₃ /trace HF	5188-6524

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, Tygon, 3-stop, white/white, 12/pk; peristaltic pump tubes for waste, Ismaprene, 3-stop, yellow/blue, 12/pk; peristaltic pump tubes for internal standard, Tygon, 2-stop, 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.	G3280-67221

* 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 ₃	5190-8561
Antimony (Sb) in 1% HNO ₃ , trace tartaric acid	5190-8562
Arsenic (As) in 2% HNO ₃	5190-8563
Barium (Ba) in 2% HNO ₃	5190-8564
Beryllium (Be) in 2% HNO ₃	5190-8565
Boron (B) in H ₂ O	5190-8566
Cadmium (Cd) in 2% HNO ₃	5190-8567
Chromium (Cr) in 2% HNO ₃	5190-8568
Copper (Cu) in 2% HNO ₃	5190-8569
Iridium (Ir) in 2% HCl	5190-8570
Lead (Pb) in 2% HNO ₃	5190-8571
Lithium (Li) in 2% HNO ₃	5190-8572
Lutetium (Lu) in 2% HNO ₃	5190-8573
Manganese (Mn) in 2% HNO ₃	5190-8574
Mercury (Hg) in 5% HNO ₃	5190-8575
Nickel (Ni) in 2% HNO ₃	5190-8576
Platinum (Pt) in 5% HCl	5190-8577
Scandium (Sc) in 2% HNO ₃	5190-8578
Selenium (Se) in 2% HNO ₃	5190-8579
Silver (Ag) in 2% HNO ₃	5190-8580
Strontium (Sr) in 2% HNO ₃	5190-8581
Terbium (Tb) in 2% HNO ₃	5190-8582
Tin (Sn) in 5% HCl	5190-8583
Uranium (U) in 2% HNO ₃	5190-8584
Vanadium (V) in 5% HNO ₃	5190-8585
Yttrium (Y) in 2% HNO ₃	5190-8586
Zinc (Zn) in 2% HNO ₃	5190-8587

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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 ₃	8500-6944
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 ₃	8500-6940
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 ₃	8500-6948
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 ₂ O/trace HF	8500-6942

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	5190-8594
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	5190-8595

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 ₃	5183-4688
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 ₃	5183-4682
Internal standard mix, 100 mL; 100 ppm of 6Li, Sc, Ge, Rh, In, Tb, Lu, Bi; matrix 10% HNO ₃	5188-6525
Internal standard mix, 100 mL; 10 mg/L of 6Li, Sc, Ge, Y, In, Tb, Bi; matrix 5 to 10% HNO ₃	5183-4681
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 ₃	5183-4687
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 ₃ /trace HF	5188-6526
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 ₃	5188-6527