

# AGILENT 7800/7900/8900 ICP-MS SUPPLIES

## Quick reference guide



### Agilent supplies for Agilent instruments

Agilent Technologies is committed to optimizing your laboratory's productivity, so we have produced this list of the most commonly ordered supplies and parts for the 7800/7900 ICP-MS and 8900 Triple Quadrupole ICP-MS. Keep this list handy so you can quickly find the supplies you need and minimize instrument downtime.



Operating Supplies Kits	Part No.
<b>Basic supplies kits #</b>	
For Agilent 7900 ICP-MS fitted with x-lens and Edwards E2M18 roughing pump using Inland 45 oil	G3280-67003
For Agilent 78/7900 and 8900 ICP-MS fitted with x-lens and roughing pump using AVF 60 SHCE oil	G3280-67221
<b>Configurable parts and supplies kits #*</b>	
For Agilent 7800 ICP-MS system fitted with x- lens	M5141A
For Agilent 7900 ICP-MS systems fitted with x- or s-lens	G1131A
For Agilent 8900 ICP-MS systems fitted with x- or s-lens	G1091A

# for kit contents, additional options and more information see Agilent publication "5991-5006EN: Spare Parts and Operating Supplies Kits for Agilent ICP-MS"

\* configurable kits must be ordered via your Agilent Representative or Agilent Authorized Distributor. Configurable kits cannot be ordered through the online store.

Sampler Cones and Supplies (suits all 7800/7900 and 8900 ICP-MS)	Part No.
Graphite gasket for sampling cone, 3/pk	G3280-67009
Nickel sampling cone	G3280-67040
Platinum sampling cone (standard for semicon configuration)	G3280-67036
Ni plated sampling cone (for samples containing > 0.5% HCl and when using max. HMI aerosol dilution)	G3280-67061
Platinum sampling cone with 18 mm insert (for high viscosity and high boiling point acids e.g. H <sub>2</sub> SO <sub>4</sub> or H <sub>3</sub> PO <sub>4</sub> )	G3280-67056

Skimmer cones and bases for 7800 ICP-MS	Part No.
Nickel skimmer (standard for 7800)	G3280-67041
Stainless steel skimmer base for nickel skimmer	G3280-60608
Platinum skimmer, Ni base (recommended for organics analysis - requires brass skimmer base)	G3280-67063
Platinum skimmer, Cu base (recommended for best LODs and with higher matrix samples [requires brass skimmer base])	G3280-67060
Brass skimmer base (required for use with Pt skimmer)	G3280-60621

Skimmer cones and bases for 7900 ICP-MS	Part No.
Nickel skimmer (standard for 7900 with x lens)	G8400-67200
Stainless steel skimmer base for 7900 with x lens (required for use with Ni skimmer)	G8400-60624
Platinum skimmer, Cu base for 7900 with x lens, (recommended for best LODs and with higher matrix samples [requires brass skimmer base])	G8400-67201
Platinum skimmer, Ni base for 7900 with x lens (recommended for organic analysis [requires brass skimmer base])	G8400-67202
Brass skimmer base for 7900 with x lens (required for use with Pt skimmer)	G8400-60625
Platinum skimmer, Cu base (standard for 7900 with s lens [requires brass skimmer base])	G3280-67064
Brass skimmer base for 7900 with s lens (required for use with Pt skimmer)	G8400-60626



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<b>Skimmer cones and bases for 8900 ICP-QQQ</b>	
Nickel Skimmer (Standard for 8900 with x-lens)	G8400-67200
Platinum Skimmer, Cu base (Option for 8900 with x-lens, recommended for best LODs and with higher matrix samples [requires brass skimmer base])	G8400-67201
Platinum Skimmer, Ni base (for 8900 with x-lens, recommended for organic analysis [requires brass skimmer base])	G8400-67202
Nickel Skimmer (for 8900 with s-lens)	G3666-67421
Platinum Skimmer, Cu base (Standard for 8900 with s-lens [requires brass skimmer base])	G3666-67401
Platinum Skimmer, Ni base (for 8900 with s-lens [requires brass skimmer base])	G3666-67411
Platinum Skimmer, Cu base (for 8900 with c-lens [requires brass skimmer base])	G3280-67064
Platinum Skimmer, Ni base (for 8900 with m-lens [requires brass skimmer base])	G3666-67501
Stainless steel Skimmer base (Standard for 8900 with x-lens)	G3666-60301
Brass Skimmer base (Standard for 8900 with s/m-lens, required for use with a Pt skimmer)	G3666-60401
Brass Skimmer base (Standard for 8900 with x-lens, required for use with a Pt skimmer)	G3666-60311
Brass Skimmer base (Standard for 8900 with c-lens, required for use with a Pt skimmer)	G3666-60601

<b>Nebulizers and Supplies</b>	<b>Part No.</b>
MicroMist nebulizer, U-series (standard for 7800/7900)	G3266-80004
UniFit sample tubing for U-series MicroMist nebulizer, 0.5 mm id, 10/pk	G3266-80012
UniFit sample tubing for U-series MicroMist nebulizer, 0.25 mm id, 10/pk	G3266-80013
UniFit sample tubing for U-series MicroMist nebulizer, 0.75 mm id, 10/pk	G8010-80035
MicroMist nebulizer w/ PEEK gas connector, for 8900	G3266-80005
Nebulizer gas fitting with PEEK ratchet connector, 1/ pk. Suits MicroMist nebulizer with PEEK gas fitting used with the 8900	G3266-80017
MicroFlow nebulizer, PFA (200 µL/min), 1/pk	G3139-65100
MicroFlow nebulizer with I-AS probe, PFA (200 µL/min)	G3139-65102

<b>Tubing</b>	<b>Part No.</b>
Peri-pump tubing for sample, tygon, 3-stop white/white 1.02 mm id, 40 cm, 12/pk	G1833-65569
Peri-pump tubing for Internal Standard, 0.25 mm id, 2-stop blue/orange, 12/pk	G3280-67047
Peri-pump tubing for spray chamber drain, ismaprene 3-stop yellow/blue, 1.52 mm id, 40 cm, 12/pk	G1833-65570
Sample tubing, PFA, 0.5 mm id, 1.6 mm od, 5 m	G1820-65105
Online Internal Standard addition kit	G3280-60590
Drain tubing (tubing between peri-pump tubing and drain tank)	G1820-65515
Tygon tubing, 4.0 mm id, 2.5 m (for drain to drain tank)	G3280-60077

<b>Spray Chamber Supplies</b>	<b>Part No.</b>
Spray chamber for 7800 (quartz, non-HMI/UHMI) Can be used with the 7900/8900 when Ultra HMI capability is NOT required	G3280-80008
End cap for non-HMI/UHMI spray chamber	G3280-60008
Connector tube, straight between spray chamber and torch (quartz)	G3270-80025
Connector tube with dilution port for HMI/UHMI (quartz)	G3270-80024
Spray chamber with UHMI for the 7900/8900. Required when using Ultra HMI capability. For operation without Ultra HMI capability, use the standard spray chamber (p/n G3280-80008)	G8400-67150
Clamp to join UHMI connector tube to spray chamber or torch, 1/pk	G8400-60327
Endcap retainer ring for spray chamber	G8400-40200
Dilution nozzle for UHMI	G8400-67026
Drain tubing kit (tubing between spray chamber and peri-pump, includes two connectors, bushing and tubing)	G3280-60555

<b>Torch</b>	<b>Part No.</b>
Torch (quartz), 2.5 mm id, standard torch for 78/79/8900	G3280-80053
Torch (quartz), 1.5 mm id taper type for use with organics	G3280-80080
Torch (quartz), 1.0 mm id taper type for use with organics	G3280-80081
Bonnet (quartz ring for shield torch)	G1833-65421
Shield plate, long life	G1833-65419

<b>Vacuum System Supplies</b>	<b>Part No.</b>
AVF 60 SHCE oil for Agilent MS40+ Foreline pump used with 7800/7900/8900, 1 L	X3760-64004
Inland 45 oil for Edwards E2M18 Foreline pump used with earlier model 7900, 1.06 qt	6040-0834

SPS 4 Autosampler Consumables	Part No.
<b>Racks and tubes</b>	
Standards rack 5 position (1/pk). Provides 5 locations for 250 mL 60 mm od narrow neck sample containers.	G8410-40001
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 (1/pk, recommend 2 per rack) Allows 13 mm and some 16 mm od tubes to be used in 60-position rack.	6610026100
Rack overlay for 40-position sample rack (1/pk, recommend 2 per rack). Allows 18 mm od tubes to be used in 40-position rack.	6610026000
Bottle 250 mL for 5 x 60 mm standards rack (1/pk)	5043-0064
Centrifuge tubes polypropylene 50 mL (500/pk) screw capped, 29 mm od	190065200
Polypropylene tubes, 16.5 mL, 17 mm x 130 mm, 1000/pk	00000001600L
<b>Peristaltic pump tubing for the rinse pump</b>	
Peristaltic pump tubing, PVC SolvaFlex, 3 bridged, grey/grey tabs (pk/12 tubes) Standard tubing for the rinse pump, for use with aqueous or low volatile organic solvents	3710049000
Peristaltic pump tubing, Santoprene, 3 bridged, grey/grey tabs (pk/12 tubes) For use with ketone-based solvents	3710057500
Peristaltic pump tubing, Viton, 3 bridged, black/black tabs with flared ends (pk/12 tubes) For use with aromatic organic solvents	3710069100
<b>Spare probes</b>	
SPS 4 probe 0.25 mm id, red marker, inert, FEP sleeved, 1/pk	G8410-80100
SPS 4 probe 0.5mm-id, yellow marker, inert, FEP sleeved, 1/pk (Standard probe for ICP-MS)	G8410-80101
SPS 4 probe 0.8mm-id, green marker, inert, FEP sleeved, 1/pk	G8410-80102
SPS 4 sample probe with red marker, suits SPS 4 Microtiter tray, 1/pk. Required when using the 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
96 position well plates, 0.5 mL, polypropylene 120/pk. Spare well plates suitable for use with the SPS 4 autosampler when using the optional microtiter tray for sampling from a 96 position well plate.	5042-1385

SPS 4 Autosampler Options	Part No.
High uptake volume rinse kit for SPS 4 Recommended for use when connected to the ISIS 3. Allows rinse uptake rate to be increased to 25 mL/min.	G8410-68260
SPS 4 rinse tube kit, for low volatile organics. Allows use of low volatile organic solvents in rinse station.	G8410-68261
Pump drain kit for SPS4 autosampler, 1/pk. Provides the components required to allow the liquid overflow to be pumped from the rinse station.	G8410-68262
Well plate startup kit for SPS 4, 1/pk. Allows the SPS 4 autosampler to be adapted to sample from deep well 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 No.
Stock tuning solution: Li, Y, Ce, Tl and Co; 100 mL, 10 mg/L; matrix 2% HNO <sub>3</sub>	5188-6564
Stock tuning solution: Li, Mg, Y, Ce, Tl, Co; 100 mL, 10 mg/L; matrix 2% HNO <sub>3</sub>	5190-0465
Tuning solution: Li, Y, Ce, Tl and Co; 2 x 500 mL, 10 µg/L; matrix 2% HNO <sub>3</sub>	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, <sup>6</sup> Li, 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	5188-6524

<b>10 µg/mL Single Element ICP-MS Standards</b> Supplied in 100 mL bottles	<b>Part No.</b>
Aluminum (Al) in 5% HNO <sub>3</sub>	5190-8561
Antimony (Sb) in 1% HNO <sub>3</sub> , trace tartaric acid	5190-8562
Arsenic (As) in 2% HNO <sub>3</sub>	5190-8563
Barium (Ba) in 2% HNO <sub>3</sub>	5190-8564
Beryllium (Be) in 2% HNO <sub>3</sub>	5190-8565
Boron (B) in H <sub>2</sub> O	5190-8566
Cadmium (Cd) in 2% HNO <sub>3</sub>	5190-8567
Chromium (Cr) in 2% HNO <sub>3</sub>	5190-8568
Copper (Cu) in 2% HNO <sub>3</sub>	5190-8569
Iridium (Ir) in 2% HCl	5190-8570
Lead (Pb) in 2% HNO <sub>3</sub>	5190-8571
Lithium (Li) in 2% HNO <sub>3</sub>	5190-8572
Lutetium (Lu) in 2% HNO <sub>3</sub>	5190-8573
Manganese (Mn) in 2% HNO <sub>3</sub>	5190-8574
Mercury (Hg) in 5% HNO <sub>3</sub>	5190-8575
Nickel (Ni) in 2% HNO <sub>3</sub>	5190-8576
Platinum (Pt) in 5% HCl	5190-8577
Scandium (Sc) in 2% HNO <sub>3</sub>	5190-8578
Selenium (Se) in 2% HNO <sub>3</sub>	5190-8579
Silver (Ag) in 2% HNO <sub>3</sub>	5190-8580
Strontium (Sr) in 2% HNO <sub>3</sub>	5190-8581
Terbium (Tb) in 2% HNO <sub>3</sub>	5190-8582
Tin (Sn) in 5% HCl	5190-8583
Uranium (U) in 2% HNO <sub>3</sub>	5190-8584
Vanadium (V) in 5% HNO <sub>3</sub>	5190-8585
Yttrium (Y) in 2% HNO <sub>3</sub>	5190-8586
Zinc (Zn) in 2% HNO <sub>3</sub>	5190-8587

<b>Multi-element Calibration Standards</b>	<b>Part No.</b>
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>	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, Ti, U, V, Zn; matrix 5% HNO <sub>3</sub>	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 <sub>3</sub>	8500-6948
Multi-element calibration standard-4, 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	8500-6942

# Agilent also offers other ICP-MS standards, plus a range of AA/ICP standards and metallo-organic standards and solvents. For more information on these alternatives, see Agilent publication "5991-5678EN Chemical Standards Catalogue"

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<b>Semi Quant Standards</b> Supplied in 100 mL bottles	<b>Part No.</b>
ICP-MS semi-quant standard I. Contains: 10 g/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, Ti, Tm, U, Y, Yb; matrix 40% aqua regia	5190-8594

ICP-MS semi-quant standard II. Contains: 10 g/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
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<b>Environmental Standards</b>	<b>Part No.</b>
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>	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 <sub>3</sub>	5183-4682
Internal standard mix, 100 mL: 100 ppm of <sup>6</sup> Li, Sc, Ge, Rh, In, Tb, Lu, Bi; matrix 10% HNO <sub>3</sub>	5188-6525
Internal standard mix, 100 mL: 10 mg/L of <sup>6</sup> Li, Sc, Ge, Y, In, Tb, Bi; matrix 5 to 10% HNO <sub>3</sub>	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 <sub>3</sub>	5183-4687

<b>Interference Check Mixes</b>	<b>Part No.</b>
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	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 <sub>3</sub>	5188-6527

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