

Essential Instrument Supplies


Agilent technical experts have compiled a list of recommended supplies that you should consider using with your new instrument in order to keep your lab operational without any disruptions and to achieve optimal performance.

Top supplies for 7800/7850/7900/8900 ICP-MS with x-lens for routine applications



Torches and torch box

Torches and supplies


- [G3280-80053](#) Torch, quartz, 2.5 mm id, 1/pk  **(Top Recommendation)**
- [G1833-65419](#) Long life Pt shield plate for ShieldTorch, 1/pk
- [G1833-65421](#) ShieldTorch bonnet, quartz, 1/pk

Quartz connector tubes

- [G3270-80025](#) Straight connector tube for use with 7850/7900/8900 with UHMI spray chamber
- [G3270-80024](#) Connector tube with dilution port for use with 7800 with HMI

Sample introduction




Nebulizer, MicroMist, borosilicate glass, 1/pk

- [G3266-80004](#) for 7800/7900 with UniFit sample connector  **(Top Recommendation)**
- [G3266-80005](#) for 8900 with PEEK ratchet nebulizer gas connector

Spray chamber (quartz), 1/pk

- [G3280-80008](#) for 7800, non-UHMI
- [G8400-67150](#) for 7850/7900/8900, UHMI


Easy-fit peristaltic pump tubing

- [5005-0020](#) Easy-Fit Peristaltic pump tubing, standard for sample uptake, recommended for aqueous, acid or alkaline matrix, 1 pack of 12 pcs  **(Top Recommendation)**
- [5005-0021](#) Easy-Fit Peristaltic pump tubing, standard for Internal Standard uptake, recommended for aqueous, acid, or alkaline matrix, 1 pack of 12 pcs  **(Top Recommendation)**
- [5005-0022](#) Easy-Fit Peristaltic pump tubing, long-life, standard for spray chamber drain, 1 pack of 12 pcs  **(Top Recommendation)**
- [G1820-65105](#) PFA sample tubing, 0.5 mm ID, 1.6 mm OD, 5 m for standard sample introduction


Interface

- [G3280-67040](#) sampler cone, Nickel, 1/pk
- [G3280-67009](#) Graphite gasket for sampling cone, 3/pk

Skimmer cone, Nickel, 1/pk

- [G3280-67041](#) for 7800/7850  **(Top Recommendation)**
- [G8400-67200](#) for 7900/8900















Easy-fit, single x-lens assembly









- [G3280-67200](#) for 7800/7850  **(Top Recommendation)**
- [G8400-67100](#) for 7900
- [G3666-67700](#) for 8900

Vacuum pump and cooling system

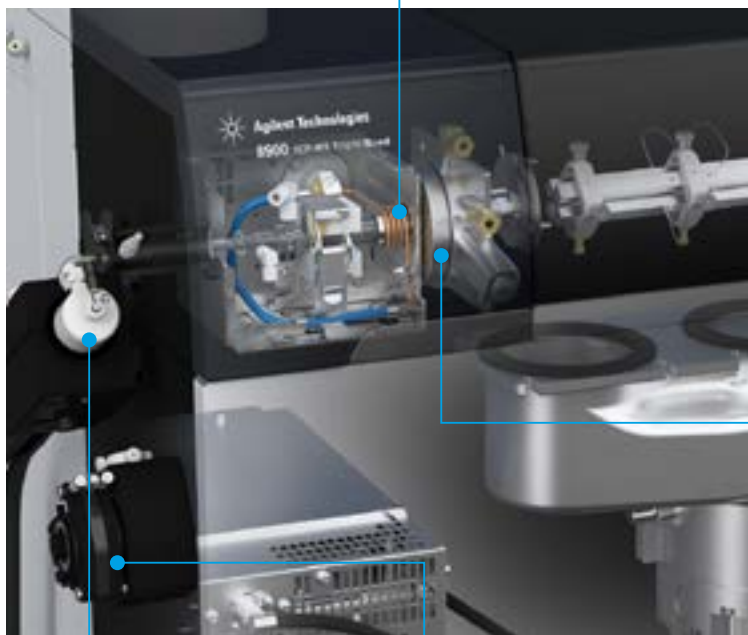
- [X3760-64004](#) AVF Platinum pump oil for MS40+, 1 L
- [G1960-80039](#) Filter, oil mist, for MS40+ pump, 1/pk
- [5799-0037](#) Agilent Cool Clear coolant fluid, 2 gal/pack

Standard (aqueous) 7800/7850/7900/8900 ICP-MS supplies recommendations

Part Number	Description	Reason to Use	
5067-0294	Nickel sampler cone care package	Comprises 2 sampler cones with supplies required for routine maintenance, including a handy magnifier tool at no extra cost. Ensures proper cleaning/maintenance of the sampler cone for best sensitivity and long, stable operation. Magnifier tool allows the user to inspect the condition of the orifice on the sampler or skimmer cones  (Top Recommendation)	
5190-9614	Magnifier 10X, LED lit for ICP-MS cones	Magnifier tool, for inspection and measurement of the orifice of the interface cones. Provides 10X magnification with LED illumination, manual focus and +/- 15 mm scaled reticle with 0.1 mm divisions. Required for routine maintenance to ensure proper cleaning/maintenance of the sampler cone for best sensitivity and long, stable operation	
G3280-67061	Sampler cone, nickel, nickel-plated, 1/pk	Optional cone which provides longer life and reduced cleaning compared to standard Ni sampler cone. Recommended for samples containing > 0.5% HCl, or routine operation with (U)HMI with max. aerosol dilution ratio	
5188-5359	Detergent for cleaning interface cones and lenses, 1 gallon	Concentrated Citranox solution to be diluted to 2% v/v with ultrapure water for cleaning interface cones in ultrasonic bath	
5005-0023	Peristaltic pump tubing, PVC, black/black tabs, 0.76 mm id, flared ends, 12/pkg	Recommended for introduction of high matrix samples, for use with both Sample and ISTD uptake to achieve 1:1 dilution	
G3266-80012	UniFit sample connector, 0.5 mm id, 10/pkg	Additional sample capillaries used to introduce sample into the nebulizer. Customers will need to periodically change this sample connector and should have extras on hand	
5005-0025	Easy-Fit Peristaltic pump tubing, optional for organic solvent matrix sample uptake, 1 pack of 12 pcs	Yellow PVC solvent flexible, 2-stop, white/white tabs, 1.02 mm id. Recommended for common organic solvents used with ICP-MS	
5005-0027	Easy-Fit Peristaltic pump tubing, optional for organic solvent matrix internal standard uptake, 1 pack of 12 pcs	Flared-end yellow PVC solvent flexible, 2-stop, blue/orange tabs, 0.25 mm id. Recommended for common organic solvents used with ICP-MS	
5005-0026	Easy-Fit Peristaltic pump tubing, optional for organic solvent high matrix sample and ISTD uptake, 1 pack of 12 pcs	Flared-end yellow PVC solvent flexible, 2-stop, black/black tabs, 0.76 mm id. Recommended for common organic solvents used with ICP-MS. Optional for sample and internal standard uptake for online sample dilution 1:1 with ISTD. Improves method robustness with high matrix samples in organic solvent	
G3266-80020	Nebulizer cleaner, for glass concentric nebulizers	Allows MicroMist nebulizer to be cleaned. This helps to dislodge particle build-up by back flushing, restoring nebulizer performance  (Top Recommendation)	
G3161-80000	Nebulizer, Mira Mist, PTFE	Recommended for high solids applications such as environmental, geological, etc. Excellent resistance to acids (including HF) and organics; does not self-aspirate	
G3139-65108	Nebulizer, MicroFlow, PFA with I-AS probe, 20 to 50 µL/min, 1/pkg	Low flow self-aspirating PFA concentric nebulizer for analysis of high purity and hydrofluoric acid samples. To be used with integrated autosampler (I-AS), sample uptake tube terminates as a sampling probe	

Part Number	Description	Reason to Use	
G4912-68000	Inert sample introduction kit, 2.5 mm id sapphire injector	Replaces standard sample introduction system with an inert system suitable for use with HF. Requires but does not include inert nebulizer (G3161-8000). Includes PFA end cap, spray chamber, connector tube, demountable torch and sapphire injector	
G4912-68001	Inert sample introduction kit, 2.5 mm id platinum injector	Replaces standard sample introduction system with an inert system suitable for use with HF for semiconductor or other trace analysis applications. Requires but does not include inert nebulizer (G3161-8000). Includes PFA end cap, spray chamber, connector tube, demountable torch and platinum injector	
G8412A#100	Argon Humidifier	The argon humidifier accessory is used to humidify the nebulizer and dilution gas when analyzing high matrix samples such as undiluted sea water. It helps to reduce blockage in the nebulizer and sample introduction system, improving long-term stability. Customer installable	
CP17973	Gas Clean carrier gas purifier, 1/pk	Replacement moisture and oxygen filter to be used for Helium and Hydrogen cell (ORS) gas lines	
5190-0465	Stock tuning solution, 100 mL	Used for tuning by dilution to 1 or 10 µg/L. Contains Li, Mg, Y, Ce, Tl and Co; 10 mg/L; matrix 2% HNO ₃	
G6011B	Quiet Cover for MS40+ rotary pump	Recommended for MS40+ rotary pump used with 7800, 7850, 7900, 8900. Features a sound-absorbing cabinet with resistant foam insulation to effectively reduce pump noise, while cushioned mounts minimize vibration	
5005-0437	Waste container kit	Recommended for waste collection on all Spectroscopy instruments. A 10 L container with S60 Stay Safe cap and charcoal vapor filter to prevent harmful vapors in the lab environment.	
5043-1193	Replacement charcoal filter for vapor trapping	Recommended for waste collection container on all Spectroscopy instruments. A replacement charcoal filter to trap acid and solvent vapors with 6-month time strip.	

Top supplies for 7900/8900 ICP-MS with s-lens for semiconductor applications



Torches and torch box

Torches and supplies

- [G3280-80053](#) Torch, quartz, 2.5 mm id, 1/pk
💡 (Top Recommendation)
- [G1833-65419](#) Long life Pt shield plate for ShieldTorch, 1/pk
- [G1833-65421](#) ShieldTorch bonnet, quartz, 1/pk
- [G3270-80024](#) Connector tube with dilution port for use with 79/8900 with s-lens

Sample introduction

- [G3139-65100](#) Nebulizer, MicroFlow, PFA, 200 µL/min, 1/pk for 79/8900 with s-lens without I-AS
- [G3139-65102](#) Nebulizer, MicroFlow with I-AS probe, PFA, 200 µL/min, 1/pk for 79/8900 with s-lens
- [G3139-68000](#) Nebulizer, MicroFlow with SPS4 probe, PFA, 200 µL/min, 1/pk for 79/8900 with s-lens
- [G3280-80008](#) Spray chamber (quartz), non-UHMI, 1/pk for 79/8900 with s-lens

Tubing

- [5005-0022](#) Easy-Fit Peristaltic pump tubing, long-life, standard for spray chamber drain, 1 pack of 12 pcs
💡 (Top Recommendation)

Waste solution

- [5005-0437](#) Waste container kit, 10L with Stay Safe cap and charcoal vapor filter
- [5043-1193](#) Replacement charcoal filter for vapor trapping, with 6 month time strip

Interface

- [G3280-67036](#) Sampler cone, Platinum, 1/pk
- [G3280-67009](#) Graphite gasket for sampling cone, 3/pk

Skimmer cone, Platinum, 1/pk

- [G3280-67064](#) for 7900
- [G3666-67401](#) for 8900

Extraction-Omega lens assembly with brass skimmer base

- [G8400-67002](#) for 7900
- [G3666-67400](#) for 8900

Vacuum pump and cooling system









- [X3760-64004](#) AVF Platinum pump oil for MS40+, 1 L
- [G1960-80039](#) Filter, oil mist, for MS40+ pump, 1/pk
- [5799-0037](#) Agilent Cool Clear coolant fluid, 2 gal/pack

Platinum interface cones supplies recommendations

Platinum interface cones are required for analysis of aggressive acids (especially hydrofluoric acid digests) and when O₂/Ar option gas is used for analyzing organic solvents. Users switching from the standard Ni cone will also need to install the brass skimmer base to prevent overheating of the cone and potential damage to the Pt cone.

Platinum skimmer cones with a copper base are recommended for lower limits of detection and for higher-matrix samples.


Platinum skimmer cones with a nickel base are recommended for aggressive acids (especially HCl, HF, and HClO₄), organic solvents and for higher-matrix samples.

Part Number	Description	Reason to Use	
G3280-60621 (7800) G8400-60625 (7900) G3666-60311 (8900)	Skimmer base, brass, for x-lens, ICP-MS	Required with Pt interface cones. Users switching from the standard Ni cone will need to install the brass skimmer base to prevent overheating of the cone and potential damage to the Pt cone	
5067-0296	Platinum sampler cone care package	Comprises 2 sampler cones with supplies required for maintenance, including a handy magnifier tool at no extra cost. Ensures proper cleaning/maintenance of the sampler cone for best sensitivity and long, stable operation. Magnifier tool allows the user to inspect the condition of the orifice on the sampler or skimmer cones	
5067-0297	Nickel-plated Platinum cone care package	Comprises 2 sampler cones with supplies required for maintenance, including a handy magnifier tool at no extra cost. Ensures proper cleaning/maintenance of the sampler cone for best sensitivity and long, stable operation. Magnifier tool allows the user to inspect the condition of the orifice on the sampler or skimmer cones	
G3280-67036	ICP-MS sampler cone, Platinum, 1/pk	Suitable for 78/79/8900 ICP-MS. Use with platinum skimmer cone and brass skimmer base	
G3280-67142	ICP-MS sampler cone, Pt/Ni-plated, 1/pk	When used with aggressive matrices such as 10% aqua regia, the nickel plated Pt cone extends cone lifetime by more than 2X and reduces cone maintenance with a simple water sonication cleaning routine that reduces cleaning frequency by more than 3X, compared to the standard Pt cone. Suitable for 78/79/8900 ICP-MS. Use with platinum tip, nickel base skimmer cone, and brass skimmer base	
G8400-67201	7900/8900 ICP-MS skimmer cone, Pt, x-lens, 1/pk	Platinum skimmer cone, with copper base for 7900/8900 ICP-MS. Use with platinum sampler cone and brass skimmer base	
G8400-67202	7900/8900 ICP-MS skimmer cone, Pt/Ni, x-lens, 1/pk	Platinum skimmer cone, with nickel base for 7900/8900 ICP-MS. Use with platinum sampler cone and brass skimmer base	
G3280-67060	77/78/8800 ICP-MS skimmer cone, Pt, x-lens, 1/pk	Platinum skimmer cone, with copper base for 7800/7850 ICP-MS. Use with platinum sampler cone and brass skimmer base (G3280-60621)	
G3280-67063	77/78/8800 skimmer cone, Pt/Ni, x-lens, 1/pk	Platinum skimmer cone, with nickel base for 7800/7850 ICP-MS. Use with platinum sampler cone and brass skimmer base (G3280-60621)	

If you need more guidance to help you recommend the right sampling cone, skimmer cone, and skimmer base for your customer's instrument configuration and application, please refer to the [cone selection guide available here](#).












Operating supplies kits recommendations

The configurable supplies kits listed below include the recommended options for ICP-MS instruments with the standard configuration, and provides the supplies typically required for up to 12 months routine operation.





Part Number	Description	Reason to Use	
G1131A #100 #200 #300 #402	Configurable supplies kit for 7900 ICP-MS with x-lens. Included options: X-lens mandatory option Ni sampling cone Ni skimmer cone Oil for the roughing pump	Provides all the supplies required to keep a standard 7900 ICP-MS instrument with x-lens running for up to 12 months (depending on use) without worrying about re-ordering supplies	
G1131A #101 #202 #303 #402	Configurable supplies kit for 7900 ICP-MS with s-lens. Included options: S-lens mandatory option Pt sampling cone Pt skimmer cone Oil for the roughing pump	Provides all the supplies required to keep a semiconductor 7900 ICP-MS instrument with s-lens running for up to 12 months (depending on use) without worrying about re-ordering supplies	
M5141A #100 #200 #301 #402	Configurable supplies kit for 7800 ICP-MS with these options: Ni sampling cone Ni skimmer cone Oil for the roughing pump	Provides all the supplies required to keep a standard 7800 ICP-MS instrument running for up to 12 months (depending on use) without worrying about re-ordering supplies	
M5141A #100 #200 #301 #403	Configurable supplies kit for 7850 ICP-MS with these options: Ni sampling cone Ni skimmer cone Oil for the roughing pump	Provides all the supplies required to keep a standard 7850 ICP-MS instrument running for up to 12 months (depending on use) without worrying about re-ordering supplies	
G1091A #100 #200 #300 #401	Configurable supplies kit for 8900 ICP-MS with x-lens. Included options: Ni sampling cone Ni skimmer cone X-lens mandatory option Octopole for X-lens option	Provides all the supplies required to keep a standard 8900 ICP-MS instrument with x-lens running for up to 12 months (depending on use) without worrying about re-ordering supplies	
G1091A #102 #204 #301 #400	Configurable supplies kit for 8900 ICP-MS with s-lens. Included options: Pt sampling cone Pt skimmer cone S-lens mandatory option Octopole for s-lens option	Provides all the supplies required to keep a semiconductor 8900 ICP-MS instrument with s-lens running for up to 12 months (depending on use) without worrying about re-ordering supplies.	

If you need more guidance about the contents of the kit, and for further guidance on the alternative options available, please refer to the [Operating Supplies Kits for Agilent ICP-MS brochure available here](#).

SPS 4 autosampler supplies recommendations (ICP-MS)

Part Number	Description	Reason to Use	
Instrument Option G8415A#002 Or G8410-60100	SPS 4 Autosampler cover kit, 1/pk	Recommended to fully enclose the autosampler to help reduce sample and standard contamination from dust and drafts	
5043-0065	PVC Flexible Ducting 50 mm-id for SPS 4 cover kit, 5 m	Ducting required to enable removal of fumes from the autosampler with the cover fitted. Fitted with 56 mm OD cuffs	
G8410-80101	SPS 4 probe 0.5 mm id with yellow markers. Inert, FEP sleeved for SPS 4 autosampler, 1/pk	Required to support routine operation of the SPS 4 autosampler	
3710049000	Peristaltic pump tubing for supply of rinse solution to the autosampler, PVC Solvaflex, 3-bridged, grey/grey tabs, 12/pk	Required for routine operation as regular replacement of the pump tubing is recommended	
6610025400	Sample rack for 17 mm od tubes, 60 positions	Additional sample racks are recommended to provide additional holding and storage capacity	
6610026100	Rack overlay for 60-position sample rack. Allows 13 mm od tubes to be used in 60-position rack	Additional sample racks are recommended to provide additional holding and storage capacity	
6610026600	Sample rack for 30 mm od tubes, 21 positions	Additional sample racks are recommended to provide additional holding and storage capacity	
5043-0064	Sample bottle 250 mL for 5x60 mm std rack, 1/pk	Additional sample bottles, 60mm-OD narrow neck LDPE for the 5-position standard rack used with ICP-MS. Provides additional standards storage capacity	
00000001600L	Polypropylene sample tubes, 17 mm od, 130 mm height, 1000/pk	Sample tube recommended for the 60-position sample rack	
190065200	Centrifuge tubes, screw-capped, 29 mm od, 50 mL polypropylene, 500/pk	Sample tube recommended for the 21-position sample rack	
5005-0437	Waste container kit	Recommended for waste collection on all Spectroscopy instruments. A 10 L container with S60 Stay Safe cap and charcoal vapor filter to prevent harmful vapors in the lab environment.	
5043-1193	Replacement charcoal filter for vapor trapping	Recommended for waste collection container on all Spectroscopy instruments. A replacement charcoal filter to trap acid and solvent vapors with 6-month time strip.	

I-AS autosampler supplies recommendations

Part Number	Description	Reason to Use	
G3160-65327	Peristaltic pump tubing set for pumping drain/uptake, Tygon with connectors, 5/pk	Spare peristaltic pump tubing set with connectors for rinse pump on the I-AS autosampler	
G3160-65307	Rinse bottle, external, 100 mL, with caps, 6/pk	Rinse station bottles for I-AS autosampler	
G3160-65328	Drain tube to rinse + drain bottles I-AS, 2 pcs	Drain tubing, Tygon, from peristaltic pump to rinse bottle or drain bottle, for I-AS autosampler	
G3160-65320	Rinse solution inlet/outlet tubing, I-AS	Tubing, rinse solution inlet/outlet for I-AS autosampler	
5005-0437	Waste container kit	Recommended for waste collection on all Spectroscopy instruments. A 10 L container with S60 Stay Safe cap and charcoal vapor filter to prevent harmful vapors in the lab environment.	
5043-1193	Replacement charcoal filter for vapor trapping	Recommended for waste collection container on all Spectroscopy instruments. A replacement charcoal filter to trap acid and solvent vapors with 6-month time strip.	

[Learn more](#) about the comprehensive range of single-element and multi-element inorganic standards for testing elemental impurities in all markets that includes instrument calibration and tuning mixes for ICP-MS, ICP-OES, MP-AES, AA, and IC instrumentation.

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

[8800 with s-lens \(G3663A #200\)](#)

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

[8900 with s-lens \(G3665AA/N3665AA #200\)](#)

www.agilent.com/en/product/atomic-spectroscopy

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