

# Operating Supplies Kits for Agilent ICP-MS



## Reduce costs while ensuring long-term confidence in your results

Your Agilent ICP-MS instrument was engineered and manufactured to deliver superb performance. Don't risk the quality and reliability of your results, as well as possible instrument downtime, by using non-Agilent supplies. You'll find that using authentic Agilent ICP-MS operating supplies kits will enable you to:

- Maintain accurate analysis
- Save as much as 15% over the cost of purchasing supplies individually
- Keep your instruments running for up to 12 months (depending on use) without worrying about reordering supplies

### Increase flexibility with Agilent configurable operating supplies kits

In addition to time and cost savings, you can configure the contents of these kits for your specific instrument configuration and application. That means you can select the type and quantity of sampling cones, skimmer cones, and other supplies you need. These flexible supplies kits are available for:

- Agilent 7700/7800/7850/7900 Single-Quadrupole ICP-MS systems fitted with x-lens
- Agilent 8800/8900 Triple-Quadrupole ICP-QQQ systems
- Agilent 7700s/7900s and 8800/8900 semiconductor ICP-MS systems fitted with s-lens

These are not just parts and supplies, they are essential components which guarantee the performance, reliability, and longevity of your instrument.

On the following pages you'll find a full portfolio of genuine Agilent ICP-MS operating supplies, listed by instrument. Identify the model you are using and make your selections.

## Basic supplies kit

Part Number	Description
G3280-67221	For Agilent 7700/7800/7850/7900 and 8800/8900 ICP-MS fitted with x-lens and roughing pump using AVF Platinum pump oil
	Includes: Easy-fit peristaltic pump tubes for sample (Clear PVC, 2-stop, white/white, 12/pk), waste (Beige Thermoplastic elastomer, 3-stop, yellow/blue, 12/pk), internal standard (Clear PVC, 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.

## Comprehensive operating supplies kits

Part Number	Description
G3280-67004	For Agilent 7700x/e and 8800 ICP-MS fitted with x-lens and Edwards E2M18 roughing pump using AVF Platinum pump oil
	Includes: Easy-fit peristaltic pump tubes for sample (Clear PVC, 2-stop, white/white, 2 x 12/pk), waste (Beige Thermoplastic elastomer, 3-stop, yellow/blue, 12/pk), internal standard (Clear PVC, 2-stop, blue/orange, 2 x 12/pk); PFA sample tubes, 0.5 mm id, 1.6 mm od, 5 m; sample inlet tubing, 0.5 mm id, for MicroMist nebulizer; online internal standard addition kit; drain tube assembly; spray chamber; spray chamber drain tubing; connector tube with dilution port; dilution gas connector; nebulizer carrier gas connector; dilution gas port plug; spray chamber clamps, 2/pk; carrier gas tubing; torch with 2.5 mm id injector; long-life Pt shield plate; quartz bonnet for shield torch; plasma/auxiliary gas tubing with inner sleeve; gas line connector; RF coil; graphite gasket for sampling cone, 3/pk; 2 x Ni sampling cones; 2 x Ni skimmer cones; screw and spacer kit for x-lens; screw and spacer O-ring; PTFE tubing for internal reaction gas line; Octopole assembly; polishing paper kit 5 sheets No. 400+1200; oil mist filter element; rough pump oil, AVF Platinum, 1L
G3280-67007	For Agilent 7700s and 8800 semiconductor ICP-MS fitted with s-lens and Edwards E2M18 roughing pump using AVF Platinum pump oil
	Includes: Easy-fit peristaltic pump tubes for sample (Clear PVC, 2-stop, white/white, 2 x 12/pk), waste (Beige Thermoplastic elastomer, 3-stop, yellow/blue, 12/pk), internal standard (Clear PVC, 2-stop, blue/orange, 2 x 12/pk); PFA sample tubes, 0.5 mm id, 1.6 mm od, 5 m; online internal standard addition kit; drain tube assembly; spray chamber; spray chamber drain tubing; connector tube with dilution port; dilution gas connector; nebulizer carrier gas connector; dilution gas port plug; spray chamber clamps, 2/pk; carrier gas tubing; torch with 2.5 mm id injector; long-life Pt shield plate; quartz bonnet for shield torch; plasma/auxiliary gas tubes with inner sleeve; gas line connector; RF coil; graphite gasket for sampling cone, 3/pk; Pt sampling cone; screw and spacer kit for s-lens; screw and spacer O-ring; PTFE tubing for internal reaction gas line; Octopole assembly; polishing paper kit 5 sheets No. 400+1200; oil mist filter element; rough pump oil, AVF Platinum, 1L.

## Configurable operating supplies kits

Configurable operating supplies kits for Agilent ICP-MS allow you to choose the skimmer and sampling cones, ion lenses, and roughing pump oil supplied with the kit to suit your application needs. Please follow the steps below to configure your kits.

Part Number	Description
G1131A	For Agilent 7900 ICP-MS systems fitted with x- or s-lens
	Includes: Easy-fit peristaltic pump tubes for sample (Clear PVC, 2-stop, white/white, 2 x 12/pk), waste (Beige Thermoplastic elastomer, 3-stop, yellow/blue, 12/pk), internal standard (Clear PVC, 2-stop, blue/orange, 2 x 12/pk); PFA sample tubing, 0.5 mm id, 1.6 mm od, 5 m; online internal standard addition kit; drain tubing assembly; spray chamber for UHMI; tubing for drainage, 4.0 mm id, 2.5 m; quartz connector tube, straight; gas connector for dilution gas port; dilution nozzle, UHMI; plug for dilution port, 4 mm; clamp, torch ball joint connector, 2/pk; carrier/make-up dilution gas tubing; torch with 2.5 mm id injector; long-life Pt shield plate; quartz bonnet for shield torch; low impurity gas tubing kit; connectors for plasma/auxiliary gas; work coil assembly; graphite gasket for sampling cone, 3/pk; screw/spacer/O-ring for cell; tubing for reaction cell gas; Octopole assembly; polishing paper kit 5 sheets No. 400+1200; exhaust filter for MS40+ roughing pump.

### Step 1: Choose your type of kit based on x- or s-lens

G1131A#100	Includes: UniFit sample connector, 0.5 mm id, 10/pk (G3266-80012); nebulizer EzyLok gas connector (G3266-80015); Screw and spacer kit for x-lens (G8400-67003)	Mandatory option for a 7900 with x-lens. If you choose this option then options #200 or #201 and #300 are recommended. If running HF digests, options #202 and #302 are recommended
G1131A#101	Includes: Carrier gas line connector Microflow nebulizer (G1833-65583); screw and spacer kit for s-lens, (G3280-67038)	Mandatory option for a 7900 with s-lens. If you select this option then options #202 and #303 are recommended. If running aggressive semiconductor samples, options #203 and #303 are recommended

Note: If you have selected a part from the pale blue row in step 1, the parts from the pale blue rows in steps 2 and 3 are the recommended options. Similarly, if you selected a part from the grey row in step 1, the parts from the grey rows in steps 2 and 3 are the recommended options.

Step 2: Choose one of the options below to select your sampling cone

G1131A#200	Add Ni sampling cone for 7900, (bundles p/n G3280-67040 with the kit)	Provides most economical operation. Suitable for most common applications
G1131A#201	Add Ni plated sampling cone for 7900, (bundles p/n G3280-67061 with the kit)	For samples containing >0.5% HCl, or for HMI operation with maximum aerosol dilution ratio
G1131A#202	Add Pt sampling cone for 7900, (bundles p/n G3280-67036 with the kit)	Required when running HF digests or semiconductor samples
G1131A#203	Add Pt sampling cone (18 mm insert) for 7900, (bundles p/n G3280-67056 with the kit)	Recommended for aqua regia digests

Step 3: Choose one of the options below to select your skimmer cone

G1131A#300	Add Ni skimmer cone for 7900 with x-lens (bundles p/n G8400-67200 with the kit)	Provides most economical operation. Suitable for most common applications
G1131A#301	Add Pt skimmer cone with Cu base and brass skimmer base for 7900 with x-lens (bundles p/n G8400-67201 and G8400-60625 with the kit)	Recommended for the lowest LODs and for higher matrix samples (such as HF digested geological samples)
G1131A#302	Add Pt skimmer cone with Ni base and brass skimmer base for 7900 with x-lens (bundles p/n G8400-67202 and G8400-60625 with the kit)	Recommended for analysis of organic solvents
G1131A#303	Add Pt skimmer cone for 7900 with s-lens (bundles p/n G3280-67064 with the kit)	Required when running HF digests or semiconductor samples
G1131A#304	Add Ni skimmer cone and stainless steel skimmer base for 7900 with s-lens (bundles p/n G3280-67066 and G8400-60627 with the kit)	Provides lowest cost interface for applications where lowest LODs are not required

Step 4: Choose this option below to include oil for the roughing pump

G1131A#402	Adds 2 packs AVF Platinum oil, 1 L, (p/n X3760-64004)	Suits Agilent MS40+ roughing pump
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Once you have selected your preferred options, please contact your Agilent Representative or Agilent Authorized Distributor to place your order. Configurable kits cannot be ordered through the online store.

Part Number	Description
M5141A	For Agilent 7800 ICP-MS system fitted with x- lens

Includes: Easy-fit peristaltic pump tubes for sample (Clear PVC, 2-stop, white/white, 2 x 12/pk), waste (Beige Thermoplastic elastomer, 3-stop, yellow/blue, 12/pk), internal standard (Clear PVC, 2-stop, blue/orange, 2 x 12/pk); PFA sample tubing, 0.5 mm id, 1.6 mm od, 5 m; UniFit sample connector, 0.5 mm id, 10/pk; online internal standard addition kit; drain tubing assembly; spray chamber; tubing for drainage, 4.0 mm id, 2.5 m; quartz connector tube with dilution port; gas connector for dilution gas port; nebulizer EzyLok gas connector; plug for dilution port, 4 mm; clamps for spray chamber, 2/pk; carrier/make-up dilution gas tubing; torch with 2.5 mm id injector; long-life Pt shield plate; quartz bonnet for shield torch; low impurity gas tubing kit; connectors for plasma/auxiliary gas; work coil assembly; graphite gasket for sampling cone, 3/pk; screw and spacer kit for x-lens; screw/spacer/O-ring for cell; PTFE tubing for reaction cell gas; Octopole assembly; polishing paper kit 5 sheets No. 400+1200; exhaust filter cartridge; 2 packs rough pump oil, AVF Platinum, 1 L.

#### Step 1: Choose one of the options below to select your sampling cone

M5141A#100	Add Ni sampling cone for 7800, (bundles p/n G3280-67040 with the kit)	Provides most economical operation. Suitable for most common applications
M5141A#101	Add Ni plated sampling cone for 7800, (bundles p/n G3280-67061 with the kit)	For samples containing >0.5% HCl, or for HMI operation with maximum aerosol dilution ratio
M5141A#102	Add Pt sampling cone for 7800, (bundles p/n G3280-67036 with the kit)	Required when running HF digests or semiconductor samples
M5141A#103	Add Pt sampling cone (18 mm insert) for 7800, (bundles p/n G3280-67056 with the kit)	Recommended for aqua regia digests

*Note: If you have selected a part from the pale blue rows in step 1, the part from the pale blue row in step 2 is the recommended option. Similarly, if you selected a part from the grey row in step 1, the part from the gray row in step 2 is the recommended option.*

#### Step 2: Choose one of the options below to select your skimmer cone

M5141A#200	Add Ni skimmer cone for 7800 (bundles p/n G3280-67041 with the kit)	Provides most economical operation. Suitable for most common applications
M5141A#201	Add Pt skimmer cone and brass skimmer base for 7800 (bundles p/n G3280-67060 and G3280-60621 with the kit)	Recommended for the lowest LODs and for higher matrix samples (such as HF digested geological samples)
M5141A#202	Add Pt skimmer cone with Ni base and brass skimmer base for 7800 (bundles p/n G3280-67063 and G3280-60621 with the kit)	Recommended for analysis of organic solvents

*Once you have selected your preferred options, please contact your Agilent Representative or Agilent Authorized Distributor to place your order. Configurable kits cannot be ordered via the online store*

#### Step 3: Choose one of the options below to select your rough pump oil mist filter.

M5141A#300	Add Oil mist filter element for DS402 pump	Suits Agilent DS402 roughing pump
M5141A#301	Add Oil mist filter element for MS40+	Suits Agilent MS40+ roughing pump

#### Step 4: Choose one of the options below to select your ICP-MS model between 7800 and 7850.

M5141A#402	Add 7800 ICP-MS specific parts	Adds sample introduction system components specific to the 7800 ICP-MS (spray chamber, HMI quartz transfer tube and HMI gas connector)
M5141A#403	Add 7850 ICP-MS specific parts	Adds sample introduction system components specific to the 7850 ICP-MS (UHMI spray chamber, straight quartz transfer tube and UHMI gas connector)

*Once you have selected your preferred options, please contact your Agilent Representative or Agilent Authorized Distributor to place your order. Configurable kits cannot be ordered through the online store.*

Part Number	Description
G1091A	For 8900 ICP-MS systems fitted with x- or s-lens
	Includes: Easy-fit peristaltic pump tubes for sample (Clear PVC, 2-stop, white/white, 2 x 12/pk), waste (Beige Thermoplastic elastomer, 3-stop, yellow/blue, 12/pk), internal standard (Clear PVC, 2-stop, blue/orange, 2 x 12/pk); PFA sample tubes, 0.5 mm id, 1.6 mm od, 5 m length; on-line internal standard addition kit; drain tube assembly; tubing for spray chamber drain (4.0 mm id, 2.5 m); clamp, torch ball joint connector, 2/pk; carrier/make-up/dilution gas tubing; torch with 2.5 mm id injector; long-life Pt shield plate; quartz bonnet for shield torch; plasma/auxiliary low impurity gas tubing kit with inner sleeves; connectors for plasma and auxiliary gas; work coil assembly; graphite gasket for sampling cone, 3/pk; tubing for reaction cell gas; Polishing paper kit, 5 sheets No. 400 + 1200; exhaust filter for MS 40+ roughing pump; 2 packs AVF Platinum oil, 1 L bottle

Step 1: Choose at least one of the following options to select the sample cone supplied

G1091A#100	Add Ni sampling cone for 8900 (bundles p/n G3280-67040 with the kit)	Provides most economical operation. Suitable for most common applications
G1091A#101	Add Ni plated sampling cone for 8900 (bundles p/n G3280-67061 with the kit)	For samples containing >0.5% HCl, or for (U)HMI operation with maximum aerosol dilution ratio
G1091A#102	Add Pt sampling cone for 8900 (bundles p/n G3280-67036 with the kit)	Required when running HF digests or semiconductor samples
G1091A#103	Add Pt sampling cone (18 mm insert) for 8900 (bundles p/n G3280-67056 with the kit)	Recommended for aqua regia digests

Note: If you have selected a part from the pale blue rows in step 1, the parts from the pale blue rows in steps 2-4 are the recommended options. Similarly, if you selected a part from the grey row in step 1, the parts from the grey rows in step 2-4 are the recommended options.

Step 2: Choose at least one of the following options to select the skimmer cone supplied

G1091A#200	Add Ni skimmer cone for 8900 with x-lens (bundles p/n G8400-67200 with the kit)	Provides most economical operation. Suitable for most common applications
G1091A#201	Add Pt skimmer cone with Cu base for 8900 with x-lens (bundles p/n G8400-67201 + G3666-60311 with the kit)	Recommended for the lowest LODs and for higher matrix samples (such as HF digested geological samples)
G1091A#202	Add Pt skimmer cone with Ni base for 8900 with x-lens (bundles p/n G8400-67202 + G3666-60311 with the kit)	Recommended for analysis of organic solvents
G1091A#203	Add Ni skimmer cone for 8900 with s-lens (bundles p/n G3666-67421 with the kit)	Provides lowest cost interface for applications where lowest LODs are not required
G1091A#204	Add Pt skimmer cone with Cu base for 8900 with s-lens (bundles p/n G3666-67401 with the kit)	Recommended for the lowest LODs when running semiconductor samples.
G1091A#205	Add Pt skimmer cone with Ni base for 8900 with s-lens (bundles p/n G3666-67411 with the kit)	Recommended for analysis of organic solvents

Step 3: Choose the correct one of the following options to select the sample and gas connectors and screw/spacer kit supplied for the type of lens configuration.

G1091A#300	Includes: Unifit sample connector (p/n G3266-80012); gas connector for nebulizer (p/n G3266-80017); screw and spacer kit (p/n G8400-67003); spray chamber with UHMI (p/n G8400-67150); dilution nozzle, UHMI (p/n G8400-67026); gas connector, dilution gas port (p/n 0100-2703); blankplug for dilution port, PTFE (p/n G3666-20391)	Mandatory option for 8900 with x-lens configured for standard or advanced application
G1091A#301	Includes: carrier gas line connector (p/n G1833-65583); screw and spacer kit (p/n G3666-67038); spray chamber (without UHMI) (p/n G3280-80008)	Mandatory option for 8900 with s-lens configured for semiconductor applications

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Step 4: Choose the correct one of the following options to select the octopole assembly for the instrument configuration

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G1091A#401	Includes: Octopole assembly without axial accelerator for 8900 (p/n G3666-67046); screw/ spacer/O-ring for 8900 for cell without axial accelerator (p/n G3666-67044); quartz connector tube straight (p/n G3270-80025)	Mandatory option for 8900 with standard configuration (with ORS without axial acceleration)
G1091A#400	Includes: Octopole assembly with axial accelerator for 8900 (p/n G3666-67045); screw/spacer/Oring for 8900 for cell with axial accelerator (p/n G3666-67049); quartz connector tube, dilution, HMI kit (p/n G3270-80024); plug for dilution port (p/n G3280-20576); gas connector for dilution gas port (p/n 0100-2583)	Mandatory option for 8900 configured for advanced or semiconductor application (with ORS with axial acceleration)

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## Agilent atomic spectroscopy portfolio: The value of knowing

Agilent has changed the atomic spectroscopy landscape. Remarkable innovations like the ICP-QQQ, 5900 SVDV ICP-OES, and the MP-AES technique have added even more application opportunities to those already offered by Agilent.

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