

# Agilent 700 Series Axial ICP-OES 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 700 series axial (horizontally orientated) ICP-OES systems. Keep this list so you can quickly find the supplies you need and minimize instrument downtime.



Pump and Connecting Tubing	Part Number
Tubing, PVC, white/white, 12/pk	3710034400
Tubing, PVC, blue/blue, 12/pk	3710034600
Tubing, PVC, black/black, 12/pk	3710027200
Tubing, PVC, orange/white, 12/pk	3710046900
Y-piece connector, for online addition of internal standard/ionization buffer	1610132400
Replacement tubing, for ICP-OES aqueous samples, spray chamber to torch, per m	3710033400
Replacement tubing, for ICP-OES aqueous samples, spray chamber to peristaltic pump waste line (glass, cyclonic spray chamber), per m	3710024600
Replacement tubing, spray chamber to peristaltic pump waste line (Sturman-Masters spray chamber), per m	3710033900

  

Spray Chambers	Part Number
Spray chamber, single-pass, glass cyclonic	2010081700
Spray chamber, double-pass, glass cyclonic	7910043700
Sturman-Masters spray chamber, inert, white, for HF samples or when using the V-groove nebulizer for fusions or slurries. Requires mounting bracket p/n 410328600	110593190
Transfer tube, FEP, for axial ICP	7910051590
O-ring, 1/4 in id x 3/8 in od x 1/16 in, nitrile, for nebulizer inlet	6910001200
O-ring kit, for cyclonic glass spray chamber	9910081600

Spare Tubing Kits	Part Number
Sample compartment/torch box tube connection kit, includes all tubing for spray chamber area and spare nipples for drain (excluding pump tubing)	9910057100
Tubing and connectors kit, includes 2/pk standard peristaltic pump tubing, snap connectors, other connectors used in sample compartment, and torch box area, ideal for spare startup kit	9910097500
Internal standard kit 1, with black/black tubing, includes pump tubing, Ezy-Fit connectors, 5 Y-pieces, and connecting tubing	9910124000
Internal standard kit 2, with orange/white tubing, includes pump tubing, Ezy-Fit connectors, 5 Y-pieces and connecting tubing	9910124100
Tubing kit, aqueous, for SeaSpray/K-style nebulizers and glass, cyclonic spray chamber	9910123600
Tubing kit, aqueous, for V-groove nebulizer and Sturman-Masters spray chamber	9910123800
* Each aqueous tubing kit includes standard PVC pump tubing, FEP transfer tube, drain tubing, waste line, EzyFit connectors, nebulizer capillary tubing, connectors, and connecting tubing	
Tubing kit, organic, for SeaSpray/K-style nebulizers and glass, cyclonic spray chamber	9910124200
Tubing kit, organic, for V-groove nebulizer and Sturman-Masters spray chamber.	9910124400
* Each organic tubing kit includes PVC SolvaFlex pump tubing for use with low volatile organic solvents, FEP transfer tube, drain tubing, waste line, EzyFit connectors, nebulizer capillary tubing, connectors, and connecting tubing	

<b>Nebulizers and Supplies</b>	<b>Part Number</b>
Concentric glass nebulizer, SeaSpray/Ezylok, includes sample and gas inlet fittings	2010096400
Concentric glass nebulizer, K-style (Conikal for organic solvents)	2010106800
OneNeb series 2 inert concentric type nebulizer. For use with HF and high TDS solutions.	G8010-60293
V-groove nebulizer kit, inert, for Sturman-Masters spray chamber	9910057400
Sample inlet fitting, EzyFit, for concentric glass nebulizer	9910107700
Gas inlet connector, Ezylok, for concentric glass nebulizer	9910127800
Drain tubing, per m, 1/8 in id x 1/4 in od, connects argon gas supply to nebulizer and drain tubing for SPS 3	3710031500

<b>Torches and Supplies</b>	<b>Part Number</b>
Torch, low flow, quartz, with 2.4 mm id injector (standard torch)	2010090400
Torch, low flow, quartz, with 1.4 mm id injector (for organics)	2010104800
Torch, low flow, quartz with 0.8 mm id injector (for volatile organics)	2010104700
Torch, high solids, with tapered 2.4 mm id injector (for high TDS samples)	2010094800
GazFit fittings for one piece and semidemountable ICP-OES torches, 4/pk	9910107100
Silicon tubing, 3/16 in id x 5/16 in od, per m, connects plasma and auxiliary gas lines to the argon outlet	2410023800

<b>Pre-optics Cones</b>	<b>Part Number</b>
Pre-optics cone for Agilent Vista/700 series axial ICP-OES	3610007300
Estele cleaning powder, for cleaning interface cone	8110002800

<b>SPS 3 Autosampler</b>	<b>Part Number</b>
Inert probe, 0.8 mm id, PTFE-sleeved	9910111900
Inert probe, 1.0 mm, PTFE-sleeved, used with diluter	9910112000
Inert probe, 1.3 mm id, PTFE-sleeved	9910130900
Peristaltic pump tubing, 3-bridged, gray/gray, 12/pk	3710049000
Silicon tubing, 1 mm id, per m, to connect to nebulizer	3710026400
Drain tubing, per m, 1/8 in id x 1/4 in od, connects argon gas supply to nebulizer and drain tubing for SPS 3	3710031500
Polypropylene test tubes, 17 mm od, 16.5 mL, 1,000/pk	0000001600L
Polypropylene tubes, 16 mm od, 1,000/pk	190049700
Digestion tubes, polypropylene, 5 mL graduations to 50 mL, 30 mm od x 115 mm, 500/pk	190047900
Rack overlay kit, 40-position sample rack for Agilent SPS 3 autosampler, allows 40 x 18 mm od tubes to be used with this rack	6610026000
Rack overlay kit, 60-position sample rack for Agilent SPS 3 autosampler, allows 60 x 13 mm od tubes to be used with this rack	6610026100

<b>Spares for SVS 1 Productivity Package</b>	<b>Part Number</b>
Valve, 4-port, for SVS. Replace every four to six months, depending on use.	3610010100
SVS, EzyFit, for concentric glass nebulize, 10/pk	1610136400
Flangeless fitting, 1/pk	1610136500
Ferrule, 1/pk	1610136600
FEP capillary tubing, 0.0625 in od x 0.02 in id	3710052400

<b>VGA 77</b>	<b>Part Number</b>
Sodium tetrahydroborate reagent, 500 g, hazardous	8210029100
Peristaltic pump tubing, PVC, for pumping reagents, black/black, 12/pk	3710027200
Peristaltic pump tubing, for pumping reagents, purple/black, 12/pk	3710027300
Tubing and connector kit	9910061900
ICP-OES hydride module	9910062200
Gas-liquid separator	9910062000
Pump tube beds kit	9910050700

Consumable Kits	Part Number
Matrix Valu-Pack for axial ICP. Includes high solids and semidemountable torch, extra quartz injectors, 2 spray chambers (glass cyclonic and inert Sturman-Masters), V-groove nebulizer, O-ring kit, tubing/connectors, and EzyFit/GazFit fittings.	9910112600
Extenda Valu-Pack for axial ICP. Includes 7 torches, 3 glass cyclonic spray chambers (1 double-pass and 2 single-pass), SeaSpray nebulizer, 2 O-ring kits, tubing and connectors kit, and EzyFit/GazFit fittings.	9910112800

Multi-Element Calibration Standards	Part Number
Calibration mix 1, 125 mL. Contains 100 mg/L Sb, Mo, Sn, and Tl in 2% HNO <sub>3</sub> plus 0.5% HF.	6610030500
Calibration mix 2, 125 mL. Contains 100 mg/L Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Se, Tl, Th, U, V, and Zn in 5% HNO <sub>3</sub> .	6610030600
Calibration mix majors, 125 mL. Contains 500 mg/L Ca, Fe, K, Mg, and Na in 5% HNO <sub>3</sub> .	6610030700
Calibration mix 3, organic, 100 mL. Contains 500 ppm Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Ti, V, and Zn in mineral oil.	6610030200

Wavelength Calibration Solutions	Part Number
ICP-OES wavelength calibration concentrate, 500 mL. Contains 50 mg/L Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr, Zn, and 500 mg/L K in 5% HNO <sub>3</sub> . Dilute x10 before use.	6610030000
ICP-OES wavelength calibration solution, 500 mL. Contains 5 mg/L Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr, Zn, and 50 mg/L K in 5% HNO <sub>3</sub> . Ready to use.	6610030100
Calibration blank solution for ICP-OES, 500 mL, 0 ppm. Contains pure ASTM Type 1A water with 5% HNO <sub>3</sub> for use as a calibration blank or dilution of the wavelength calibration concentrate. Ready to use.	5190-7001

Internal Standard/Ionization Suppressant Supplied in 500 mL bottles	Part Number
ICP internal standard, 125 mL bottle, 100 mg/L <sup>6</sup> Li, Sc, Y, In, Tb, Bi in 5% HNO <sub>3</sub>	6610030400
Cesium buffer solution Contains 1 % Cs (from carbonate) in 5 % nitric acid, 500 mL bottle	5190-8343
Yttrium solution – 1 % 10,000 mg/L in 5 % nitric acid. Also used for instrument optimization. 500 mL bottle	5190-8233
Multi-element internal standard (mix 4) Contains 50 µg/mL <sup>6</sup> Li, Sc, 25 µg/mL Ge, Te, 10 µg/mL Bi, In, Tb in 2 % HNO <sub>3</sub> with trace HF. 100 mL bottle	5190-8593

Agilent offers a comprehensive range of single and multi-element standards, ionization buffers, metallo-organic and biodiesel standards, solvents, and environmental standards for atomic spectroscopy. With the assurance of NIST traceability, Agilent's Certified Reference Materials and standard mixes offer accurate, reliable calibrations at great value.

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