

# AGILENT 4100/4200 SERIES MP-AES SUPPLIES

The Measure of Confidence

## Quick Reference Guide



## Agilent supplies for Agilent instruments

Agilent Technologies' revolutionary Agilent 4100/4200 series MP-AES literally runs on air. To help you maintain the superior performance of your MP-AES, keep this list handy so you can quickly find the supplies you need and minimize instrument downtime. The list covers the most commonly ordered supplies and parts for the MP-AES.

Torches and supplies	Part No.
Easy-fit torch for 4200 MP-AES. Features a blue base for easy identification. Suitable for the 4200 MP-AES only	G8003-70000
Easy-fit torch for 4100 MP-AES	G8000-70002
Torch clamp, to clamp the spray chamber to the ball joint on the torch	G8000-64140

Nebulizers and supplies	Part No.
Concentric nebulizer, for use with aqueous samples and normal digests	G8000-70004
Inert OneNeb concentric nebulizer, for use with organic solvents, HF digests, and high TDS samples	2010126900
Nebulizer gas connector, connects to gas outlet on instrument	G8000-64142

Pump and connecting tubing	Part No.
Pump tubes for aqueous samples, PVC, white/white, 12/pk	3710034400
Pump tubes for spray chamber waste, aqueous samples, PVC, blue/blue, 12/pk	3710034600
Pump tubes for organic samples and high TDS aqueous samples, Solvaflex, orange/green, 12/pk	3710068000
Pump tubes for organic waste, Solvaflex, blue/blue, 12/pk	3710067900
Pump tubes, flared ends, for organic samples and high TDS aqueous samples, Solvaflex, orange/green, 12/pk	3710068100
Organic peristaltic pump tubing kit for low volatile organic solvents with MP-AES Kit includes: Solvaflex pump tubes – 1 pack orange/green for sample inlet and 1 pack blue/blue tabs for waste line	G8003-67003
Y-piece connector for online addition of internal standard/ionization buffer	1610132400
Nebulizer capillary tubing, per m	2410020500

Spray chambers and supplies	Part No.
Spray chamber, single pass, glass, cyclonic	G8000-70006
Spray chamber, double pass, glass, cyclonic	G8000-70007
Inert cyclonic spray chamber, single pass, for HF solutions	G8000-70008
Drain tubing kit for spray chamber	G8000-64143

Miscellaneous supplies	Part No.
Pre-optics window	G8000-64112
Inlet cooling air filter	G8000-68002
Onboard argon bottle for plasma ignition	G8000-70001
Compressed air inlet filter set for Agilent 4107 Nitrogen Generator	G8001-64004

Application kits	Part No.
High sensitivity sample introduction kit Kit includes: Glass concentric nebulizer, single pass glass cyclonic spray chamber and sample pump tubes (white/white). For high sensitivity analysis of aqueous or acidic samples	G8003-67000
Routine aqueous sample introduction kit Kit includes: Conikal nebulizer, single pass glass cyclonic spray chamber and sample pump tubes (white/white). For routine analysis of aqueous or acidic samples	G8003-67001



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Organics kit	Part No.
MP-AES organics kit, includes all items required to adapt the MP-AES for determination of organic solvents including External Gas Control Module (EGCM), inert OneNeb nebulizer, and solvent resistant tubing	G8000-68004

SPS 3 Autosampler	Part No.
0.8 mm id inert probe, PTFE sleeved	9910111900
1.0 mm id inert probe, PTFE sleeved, used with Diluter	9910112000
1.3 mm id inert probe, PTFE sleeved	9910130900
Pump tubing, 3-bridged, gray/gray, 12/pk	3710049000
Silicon tubing, 1 mm id, per m, to connect to nebulizer	3710026400
Nalgene drain tubing, per m	3710031500
Polypropylene test tubes, 17 mm od, 16.5 mL, 1000/pk	0000001600L
Polypropylene tubes, 16 mm od, 1000/pk	190049700
Centrifuge tubes, screw capped, 30 mm od, 50 mL, polyethylene, 500/pk. Suitable for 6-position standards rack	190065200
Rack overlay kit for 40-position rack, allows 18 mm od tubes to be used with this rack	6610026000
Rack overlay kit for 60-position rack, allows 13 mm od tubes to be used with this rack	6610026100
SPS 3 Flame Autosampler operating supplies kit	190065400
Sample rack for 13 mm od tubes, 90 positions	6610026400
Sample rack for 16 mm od tubes, 60 positions	6610025400
Sample rack for 20 mm od tubes, 40 positions	6610025500
Sample rack for 25 mm od tubes, 24 positions	6610026500
Sample rack for 30 mm od tubes, 21 positions	6610026600

Wavelength calibration solutions	Part No.
Wavelength calibration solution, 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> + tr HF. Dilute x10 before use.	6610030000
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> + tr HF. Ready to use.	6610030100

Multi-element calibration standards	Part No.
Calibration mix 1, 125 mL. Contains 100 mg/L Sb, Mo, Sn and Ti in 2% HNO <sub>3</sub> + 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, Ti, 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, 125 mL. Contains 500 mg/kg 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

**Single element standards for MP-AES**

Supplied in 100 mL bottles, concentration 10,000 ppm (1%), 1 mL of solution contains 10 mg of metal

	<b>Part No.</b>
Aluminum ICP Standard	190026401
Antimony ICP Standard	190026402
Arsenic ICP Standard	190026403
Barium ICP Standard	190026404
Beryllium ICP Standard	190026405
Bismuth ICP Standard	190026406
Boron ICP Standard (5000 ppm)	190026407
Cadmium ICP Standard	190026408
Calcium ICP Standard	190026409
Cesium ICP Standard	190026410
Chromium ICP Standard	190026411
Cobalt ICP Standard	190026412
Copper ICP Standard	190026413
Gold ICP Standard	190026414
Iron ICP Standard	190026415
Lead ICP Standard	190026417
Lithium ICP Standard	190026418
Magnesium ICP Standard	190026419
Manganese ICP Standard	190026420
Mercury ICP Standard	190026421
Molybdenum ICP Standard	190026422
Nickel ICP Standard	190026423
Phosphorus ICP Standard	190026424
Platinum ICP Standard	190026425
Potassium ICP Standard	190026426
Selenium ICP Standard	190026428
Silicon ICP Standard	190026429
Silver ICP Standard	190026430
Sodium ICP Standard	190026431
Strontium ICP Standard	190026432
Sulfur ICP Standard	190026433
Tantalum ICP Standard	190026434
Thallium ICP Standard	190026435
Tin ICP Standard	190026436
Titanium ICP Standard	190026437
Vanadium ICP Standard	190026439
Yttrium ICP Standard	190026449
Zinc ICP Standard	190026440
Zirconium ICP Standard	190026441

**Internal standard/ionization suppressant****Part No.**

Cesium Buffer Solution, 1%, 10,000 ppm Cs in 2 to 5% nitric acid, 500 mL bottle	190064500
Cesium Buffer Solution, 10%, 100,000 ppm Cs in 2 to 5% nitric acid, 500 mL bottle	190064600
Yttrium Solution, 1%, 10,000 ppm, 500 mL bottle. Also used for instrument optimization.	190064700
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

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