



Agilent 8453/8454 UV-Vis 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 Agilent 8453/8454 UV-Vis spectrophotometer. Keep this list handy so you can quickly find the supplies you need and minimize instrument downtime.



Replacement source lamps

Description	Part No.
Deuterium lamp assembly	2140-0605
Tungsten lamp assembly	G1103-60001

Cell holders and bases

Description	Part No.
Standard cell holder	08451-60104
Long path length cell holder	89076C
Thermostatable cell holder	89054A
Stirring module for thermostatable cell holder	89055A

Miscellaneous cell supplies

Description	Unit	Part No.
Cell cleaning solution	1 L	5190-0530
Lens cleaning paper, lint-free	50/pk	9300-0761
Tray for 16 cells	10 mm	5063-6577
UV convenience kit Includes 2 x open-top UV quartz cell, 10 mm, 3.0 mL vol.; tray for 16 cells; lens cleaning paper (lint free) and multi-function tool	1 ea	5067-4666

Spacers*

Description	Part No.
Spacer for 1 mm cell	5061-3388
Spacer for 2 mm cell	5061-3389
Spacer for 5 mm cell	5061-3390

* required for cells with an outer depth of less than 12.5 mm



UV-Vis cuvettes (with center height 15 mm suitable for 8453/8454)

Macro cells			
Path length (mm)	Volume (mL)	Part No. Optical glass	Part No. Quartz

Macro cells with PTFE lid (fits standard cell holder)

1**	0.35	5063-6546	5061-3384
2**	0.7	5063-6547	5061-3385
5**	1.75	5063-6548	5061-3386
10	3.5	5063-6549	5061-3387
10	3.5	5063-6550*	1000-0544*
20#	7.0	5063-6551	5063-6553
50#	17.5	5063-6552	5063-6554

Macro cells with PTFE stopper

5**	1.75		5063-6557
10	3.5	5063-6556	5062-2477

Disposable cells, polystyrene cells, rectangular (usable from 340-800 nm)

Cell type	Path length (mm)	Sample chamber width (mm)	Volume (mL)	Unit	Part No.
Macro cell	10	10	3.5	500/pk	6610018800
Micro cell	10	4	1.5	500/pk	6610018700

Semi-micro cells

Path length (mm)	Internal dimensions (mm)	Volume (μL)	Part No. Optical glass	Part No. Quartz
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Semi-micro cells with PTFE lid

10	41.8 x 2	700		5061-3391
	36 x 4	1000	5063-6558	5063-6559

Semi-micro cells with PTFE stopper

10	36 x 4	1000	5063-6560	5063-6561
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Cylindrical cells with 2 PTFE stoppers

Path length (mm)	External dimensions (mm)	Volume (mL)	Part No. Optical glass	Part No. Quartz
100#	102.5 x 22	28	5063-6566	5061-3392

* matched pairs

** spacer required

requires long path length cell holder

Ultra-micro cells				
Path length (mm)	Aperture (mm)	Volume (μL)	Filling volume (μL)	Part No. Quartz

Ultra-micro cells with PTFE stopper (45 mm height)

2	2.5 x 2	10	20	5062-2497
10	2.5 x 2	50	70	5062-2496

Ultra-micro cells with Eppendorf pipette filling/emptying (40 mm height)

0.1	1 x 5	0.5	5	5063-6562
1	1 x 5	5.0	10	5063-6563
5	0.8 round	2.5	5	5063-6564
10	0.8 round	5.0	10	5063-6565

Flow-through cells

Path length (mm)	Aperture (mm)	Volume (μL)	Part No. Quartz
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Flow-through cells with round aperture and M6 threaded fitting (35 mm height)

10	2	30	0100-1224
	3	80	0100-1225

Flow-through cells with rectangular aperture and M6 threaded fitting (35 mm height)

0.1	17.5 x 3.5	6.2	5188-8003
0.2	17.5 x 3.5	12.4	5188-8004
0.5	17.5 x 3.5	31	5188-8005
1	17.5 x 3.5	62	5061-3396
2	17.5 x 3.5	124	5061-3397
5	12.5 x 3.5	230	5065-9918
10	11 x 3.5	390	5061-3398
10	8 x 2	160	5062-2476

Flow-through cells with oval aperture and M6 threaded fitting (40 mm height)

1	8 x 3	40	5063-6570
1	8 x 3	40	5065-9907
2	8 x 3	80	5063-6571
5	8 x 3	200	5063-6572
10	8 x 3	430	5063-6573

Sipper supplies

Description	Part No.
Sipper tubing kit	5042-1333
Flow cell, 10 mm, 80 µL	0100-1225
Cassette, fixed pressure	5041-2167
Cassette, variable pressure	5042-1356

Tubing and fittings

Description	Unit	Part No.
PTFE tubing, 1.6 mm od	10 m	5041-2191
Pump tubing, 2.06 mm od	12/pk	5041-2166
Pump tubing, 1.3 mm od	12/pk	5041-2184
Pump tubing, 2.8 mm od	12/pk	5041-2185
Tefzel ferrules and stainless steel lock rings, 1/16 in	10/pk	5022-2154
Union, ¼-28 thread, polypropylene	10/pk	5022-2155
Cell fittings, black, 4 short and 4 long	8/pk	5022-2156
Conical adapter kit	2/pk	5022-2157
PTFE nuts for 1/16 in od tubing	10/pk	5022-2158
Tubing, heat exchanger (FEP)	12 cm	5042-1336
1/16 in PEEK fittings and ferrules for 8-port valve	10/pk	5042-1337
Mounting tool for flangeless nut		0100-1710

G1120A 8-position multicell transport supplies

Description	Part No.
Optical filter kit, 3 optical filters to prevent photosensitive samples from being irradiated by UV light (265 nm, 295 nm, and UV cut-off)	G1120-68707
Stirring module kit, driven by circulating water from water bath (not included)	G1120-60006
Magnetic stirring bar for 10 x 10 mm (W x D) cells, 2/pk	9301-1161
Multicell transport adjustment tool	89075-23800
Plastic cover kit	G1120-68708

89090A Peltier temperature controller supplies

Description	Part No.
Union, cell holder	5021-1870
Flow cell, 10 mm, 8 x 2 mm aperture, 160 µL	5062-2476
Quartz cuvette, 10 mm, with PTFE stopper	5062-2477
Tubing, heat exchanger (FEP)	5042-1336
Magnetic stirring bar for 10 x 10 mm (w x d) cells, 2/pk	9301-1161

Autosampler supplies

Description	Part No.
Needle, beveled edge, for G1811A	G1811-23200
Test tubes, 12 x 100 mm, 250/pk	5022-6531
Autosampler tubing and fittings kit	5042-1334

Dissolution testing supplies

Description	Part No.
Multicell system tubing kit	5042-1330
Valve tubing kit for one bath	5042-1331
Dissolution probe kit, 0.9 mm id, tubes with fittings	5042-1332
1/16 in PEEK fittings and ferrules for 8-port valve, 10/pk	5042-1337
8-port valve for dissolution system	5063-6575
Rotor seal for 5063-6575 valve (UV-Vis) dissolution system	5067-1539
Dissolution filters for 1/8 in probe, 45 µm pore size, 1000/pk	5181-1246

Certified calibration standards and accessory kits

Description	Part No.
OQ/PV chemical standards kit I (for photometric accuracy, stray light and resolution measurements), includes 10 mL ampoules with 2 dichromate, 2 sulfuric acid, 1 sodium nitrite, 1 sodium iodide, 1 potassium chloride, 1 toluene in hexane and 2 hexane	5063-6503
OQ/PV chemical standards kit II (for wavelength accuracy), includes 10 mL ampoules with 2 perchloric acid and 1 holmium oxide in perchloric acid	5063-6521
OQ/PV hardware kit, includes 2 flow cells, cell passivating fluid, tubing kit, MCT adjustment tool, temperature sensor support, syringes and OQ/PV manual	5063-6523
Tubing kit for UV-Vis OQ/PV test, includes tubing, fittings and adapter to flush flow cell	5063-6522
Caffeine OQ/PV sample for dissolution test, 150 mg/L caffeine in water, 500 mL	5042-6476
Calibrated solution standards kit, includes potassium dichromate 60 mg/L + 600 mg/L perchloric acid blank, holmium perchlorate 4% in 10% perchloric acid, potassium chloride 12 g/L, sodium iodide 1%, sodium nitrite solution 50 g/L, water blank for stray light solutions, toluene/hexane mixture, hexane blank. All in sealed quartz cuvettes with certificate.	9910085200
Certified holmium glass filter, mounted in a 10 mm rectangular holder, with certificate	2010094300
Certified didymium glass filter, mounted in a 10 mm rectangular holder, with certificate	2010094400

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