

# Wet Chemistry: Ion Chromatography (IC)



## Environmental Express is your source for reliable, economical IC supplies.

Environmental Express offers a range of products to support ion chromatography. From standards to buffers to sample cleanup, we provide in-stock products and the highest level of customer service.

### Sample Handling Products for Dionex® Autosamplers.

#### AS-40 Consumables:

Our 5mL vials fit directly into existing AS-40 sample cassettes. The straight-sided polypropylene vials are typically supplied with filtering caps fitted with polyethylene frits.

As the autosampler probe descends into the vial, the cap is forced down and sample is forced up and through the sampling system into the instrument. Our vials are available with your choice of filtered or non-filtered caps. For small samples we offer the 0.5mL vial and filtering caps with the same range of product choices.

#### Vials and Caps for Dionex AS-40 Autosampler

Description	OEM #	Catalog #	Quantity
5mL vial and cap with filter	038141	K1250	250
5mL vial and cap w/o filter	—	K4250	250
5mL vial only	038008	K2250	250
Cap for 5mL vial with filter	038009	K3250	250
Cap for 5mL vial w/o filter	—	K3200	250
0.5mL vial and cap with filter	038142	K4270	250
0.5mL vial and cap w/o filter	—	K4280	250



#### AS-50 Consumables:

For AS-50 autosamplers we provide a 7mL polypropylene vial with pierce cap. This is an alternative to the 10mL vial with screw cap and septum that is typically used on the AS-50. In this product, an easily pierced, thin walled polyethylene cap serves as the septum.

For smaller samples we also offer the standard 1.5mL vial with slit cap.

#### Vials and Caps for Dionex AS-50 Autosampler

Description	OEM #	Catalog #	Quantity
Nominal 7mL vial with pierce cap	055058	K4300	250
1.5mL Polypropylene vial with septum cap	061696	K4350	100

### Our Stainless Steel Probe Tip replaces the thermoplastic tip for the Dionex AS/40 & AS-DV autosamplers.

The stainless steel tip will not scratch or deform ensuring extremely long service life. The tip is fully rounded to provide a better engagement with the filter cap. The tip comes with 18" of 0.010mm X 0.062mm FEP tubing inserted.

Description	OEM #	Catalog #	Quantity
Probe tip for Dionex AS/40 & AS-DV	040836	K1001	Each



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Polypropylene conical tubes are available for use in the Metrohm-Peak® Autosampler.

Tubes are 16.8mm in diameter and have a capacity of 12mL. Polyethylene caps keep airborne contamination out, but are easily penetrated by sampling needles. Caps and tubes are also sold separately.

Description	OEM #	Catalog #	Quantity
12mL tube with break cap	M.274.110	SC0250	1000
12mL tube w/o break cap	—	SC0251	1000
Break caps for SC0251	—	SC0252	1000

## 47mm Final Filter for Metrohm-Peak IC

0.1µm asymmetric polyethersulfone filter provides fast flow rate and ultra-fine particle trapping for final sample filtration in Metrohm-Peak systems.

Description	OEM #	Catalog #	Quantity
47mm PES, 0.1µm filter	6.2714.020	F470100PES	100

## Eluent Buffers for Ion Chromatography

IC eluent concentrates provide five, ten-liter aliquots of final working solution. Bring solution to volume with Type 1 water. Concentrates meet requirements of EPA 300, and are supplied with MSDS and Certificate of Analysis. All eluent buffers are supplied in sets of five 100mL bottles.

Description	Catalog #	Quantity
Sodium Bicarbonate 0.5M, after dilution	IC-E1100	5
Sodium Carbonate 0.5M, after dilution	IC-E1200	5
Sodium Carbonate 0.18M / Sodium Bicarbonate 0.17M, after dilution	IC-E1300	5
Sodium Carbonate 0.35M / Sodium Bicarbonate 0.15M, after dilution	IC-E1400	5
Sodium Carbonate 0.45M / Sodium Bicarbonate 0.14M, after dilution	IC-E1600	5
Sodium Carbonate 0.32M / Sodium Bicarbonate 0.10M, after dilution	IC-E1800	5

## Clean up samples prior to analysis with Ion Removal Cartridges.

A variety of ion removal cartridges are available to clean up samples prior to analysis. Resins are packed in inert polypropylene housings. Housings accept slip luer or luer-lock syringes.

Description	Size	Catalog #	Quantity
CleanUp Cartridge, Ag	1cc	K4420	50
CleanUp Cartridge, Ag	2.5cc	K4421	50
CleanUp Cartridge, Ba	1cc	K4440	50
CleanUp Cartridge, Ba	2.5cc	K4441	50
CleanUp Cartridge, H	1cc	K4450	50
CleanUp Cartridge, H	2.5cc	K4451	50
CleanUp Cartridge, Ag/H	1cc	K4460	50
CleanUp Cartridge, Ag/H	2.5cc	K4461	50
CleanUp Cartridge, Ba/Ag/H	2.5cc	K4462	50



Conical tubes for use in Metrohm-Peak IC Autosampler.



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