

VWR® Ion Chromatography Essentials

01. WORKFLOW
CONSUMABLES FOR ION
CHROMATOGRAPHY

02. INCLUDING CHEMICAL
STANDARDS AND VIALS

03. COMPATIBLE WITH DIONEX®
AND METROHM-PEAK®
AUTOSAMPLERS



Ideal for sample analysis in environmental, water/wastewater, food and beverage, pharmaceutical, research, and other applications.

VWR® ION CHROMATOGRAPHY (IC) VIALS

VWR® Ion Chromatography (IC) Vials are made of high-grade polypropylene and are compatible with Dionex and Metrohm-Peak autosamplers.

IC vials compatible with Dionex autosamplers (AS-40, AS-DV, and AS-50 models) are available with either filter caps (in 0.5 and 5 ml capacity) or pierceable polyethylene caps (in 7 ml capacity). Filter caps include polyethylene frits and feature a 40-60 µm porous filter that allows for in-line filtration, enabling removal of particulate matter prior to sample injection and reducing sample pre-treatment time. This can help improve column performance and extend the life of each column.

Pierceable caps are easily penetrated by sampling needles, but keep airborne contaminants out of the sample. For the 5 ml IC vials, a cap insertion tool is available to simplify application of vial cap.

IC vials compatible with the Metrohm-Peak autosampler have a 16 mm diameter and a 12 ml capacity. These vials feature a conical bottom and a pierceable polyethylene cap that keeps airborne contaminants out, but is easily penetrated by sampling needles.



IC vials compatible with Dionex autosamplers



IC vials compatible with Metrohm-Peak autosamplers

Description	Capacity, mL	Cat. No.
Ion Chromatography Vials for Dionex Autosamplers		
Stand-alone Vial for Dionex AS-40/AS-DV	0.5	10571-348
Stand-alone Vial for Dionex AS-40/AS-DV	5	10571-344
Stand-alone Vial for Dionex AS-50	7	10571-308
Ion Chromatography Vials for Metrohm-Peak Autosamplers		
Conical Vial for Metrohm-Peak	12	10571-312
Accessories		
Ion Chromatography Cap Insertion Tool for 5 mL Vials		10799-704

STANDARD CHROMATOGRAPHY 2 ML POLYPROPYLENE VIALS

- Wide neck opening design allows for easy filling
- Made of virgin polypropylene for samples where a polymer is preferred over glass vials. Great for ion chromatography, biological, or all-aqueous samples
- 89524-188A offers a 9 mm screw thread finish and features molded fill lines to assist with visual confirmation of sample volume
- 89524-190A is a 9 mm screw thread vial offering a molded-in conical insert with maximum fill volume of 400 uL. Recommended working volume is 300 uL with a residual volume of <2.0 uL.
- 82028-412A poly vial has a one-piece formed conical insert featuring a dual ring finish. This feature accepts both snap or crimp caps. Snap caps offer speed on/off while crimp caps offer improved evaporation control. Recommended working volume is 300 uL.



89524-188A



89524-190A



82028-412A

Description	Cat. No.
Vials	
9 mm Screw-Thread Vial	89524-188A
9 mm Screw-Thread Vial	89524-190A
11 mm Snap-Top Vial	82028-412A
Caps	
Blue Screw Cap, Bonded Blue PTFE/White Silicone, Pre-slit	89239-022A
Blue Screw Cap, Bonded Red PTFE/White Silicone	89239-020A
Blue Snap Cap, Red PTFE/White silicone	89239-012A
Blue Snap Cap, Blue PTFE/White Silicone, Pre-slit	89239-014A



89239-020A



89524-190A

STANDARDS

VWR Chemicals BDH ion chromatography (IC) standards are available for a variety of multi-element ion solutions, for both positively charged cations and negatively charged anions. Multiple bottle size options for each standard provide flexibility based on the scale of work. IC standards are manufactured under strict quality control and are traceable.



Description	Ion Type	Element	Analyte	Cat. No.
VWR BROMIDE (BR-) 1000 UG/ML 125ML	Anion	Single	-	BDH0811-125ML
VWR BROMIDE (BR-) 1000 UG/ML 500ML	Anion	Single	-	BDH0811-500ML
VWR OXALATE (C2O4)-2 1000 UG/ML 125ML	Anion	Single	-	BDH0812-125ML
VWR OXALATE (C2O4)-2 1000 UG/ML 500ML	Anion	Single	-	BDH0812-500ML
VWR CHLORIDE (CL)- 1000 UG/ML 125ML	Anion	Single	-	BDH0813-125ML
VWR CHLORIDE (CL)- 1000 UG/ML 500ML	Anion	Single	-	BDH0813-500ML
VWR CHLORITE (CLO ₂)- 1000 UG/ML 125ML	Anion	Single	-	BDH0814-125ML
VWR CHLORITE (CLO ₂)- 1000 UG/ML 500ML	Anion	Single	-	BDH0814-500ML
VWR CHLORATE (CLO ₃)- 1000 UG/ML 125ML	Anion	Single	-	BDH0815-125ML
VWR CHLORATE (CLO ₃)- 1000 UG/ML 500ML	Anion	Single	-	BDH0815-500ML
VWR FLUORIDE (F)- 1000 UG/ML 125ML	Anion	Single	-	BDH0816-125ML
VWR FLUORIDE (F)- 1000 UG/ML 500ML	Anion	Single	-	BDH0816-500ML
VWR FORMATE (HCO ₂)- 1000 UG/ML 125ML	Anion	Single	-	BDH0817-125ML
VWR FORMATE (HCO ₂)- 1000 UG/ML 500ML	Anion	Single	-	BDH0817-500ML
VWR IODIDE (I)- 1000 UG/ML 125ML	Anion	Single	-	BDH0818-125ML
VWR NITRITE (NO ₂)- 1000 UG/ML 125ML	Anion	Single	-	BDH0819-125ML
VWR NITRITE (NO ₂)- 1000 UG/ML 500ML	Anion	Single	-	BDH0819-500ML
VWR NITRITE-NITROGEN 1000 UG/ML 125ML	Anion	Single	-	BDH0820-125ML
VWR NITRITE-NITROGEN 1000 UG/ML 500ML	Anion	Single	-	BDH0820-500ML
VWR NITRATE (NO ₃)- 1000 UG/ML 125ML	Anion	Single	-	BDH0821-125ML
VWR NITRATE (NO ₃)- 1000 UG/ML 500ML	Anion	Single	-	BDH0821-500ML
VWR NITRATE-NITROGEN 1000 UG/ML 125ML	Anion	Single	-	BDH0822-125ML
VWR NITRATE-NITROGEN 1000 UG/ML 500ML	Anion	Single	-	BDH0822-500ML
VWR PHOSPHATE (PO ₄)-3 1000 UG/ML 125ML	Anion	Single	-	BDH0823-125ML
VWR PHOSPHATE (PO ₄)-3 1000 UG/ML 500ML	Anion	Single	-	BDH0823-500ML
VWR PHOSPHATE-PHOSPHORUS 1000UG/ML 125ML	Anion	Single	-	BDH0824-125ML
VWR PHOSPHATE-PHOSPHORUS 1000UG/ML 500ML	Anion	Single	-	BDH0824-500ML
VWR CALCIUM (CA ²⁺) 1000 UG/ML 125ML	Cation	Single	-	BDH0827-125ML
VWR POTASSIUM (K ⁺) 1000 UG/ML 125ML	Cation	Single	-	BDH0828-125ML
VWR MAGNESIUM (MG ²⁺) 1000 UG/ML 125ML	Cation	Single	-	BDH0829-125ML
VWR SODIUM (NA ⁺) 1000 UG/ML 125ML	Cation	Single	-	BDH0830-125ML
VWR AMMONIUM (NH ₄ ⁺) 1000 UG/ML 125ML	Cation	Single	-	BDH0831-125ML
VWR IC INSTR ION ANION CHECK STD 1 125ML	Anion	Multi	Hydrogen Phosphate (150 µg/ml), Sulfate (150 µg/ml), Nitrate (100 µg/ml), Chloride (30 µg/ml), Fluoride (20 µg/ml)	BDH0832-125ML
VWR IC INSTR ION ANION CHECK STD 2 125ML	Anion	Multi	Hydrogen Phosphate (600 µg/ml), Bromide (400 µg/ml), Nitrate (400 µg/ml), Sulfate (400 µg/mL), Chloride (200 µg/ml), Fluoride (100 µg/ml)	BDH0833-125ML
VWR IC INST ION CATION CHECK STD 3 125ML	Cation	Multi	Calcium Cation (1,000 µg/ml), Ammonium (400 µg/ml), Magnesium Cation (200 µg/ml), Potassium Cation (200 µg/ml), Sodium Cation (200 µg/ml), Lithium Cation (50 µg/ml)	* BDH0834-125ML
VWR IC INST ION CATION CHECK STD 4 125ML	Cation	Multi	Ammonium (100 µg/ml), Potassium Cation (100 µg/ml), Sodium Cation (50 µg/ml), Lithium Cation (10 µg/ml)	BDH0835-125ML
VWR IC INST ION CATION CHECK STD 5 125ML	Cation	Multi	Barium Cation (1,600 µg/ml), Strontium Cation (600 µg/ml), Calcium Cation (400 µg/ml), Magnesium Cation (200 µg/ml)	* BDH0836-125ML
VWR IC INST ION ANION CHECK STD 6 125ML	Anion	Multi	Hydrogen Phosphate (150 µg/ml), Sulfate (150 µg/ml), Bromide (100 µg/ml), Chloride (50 µg/mL), Nitrate as N (25 µg/ml), Nitrite as N (25 µg/ml), Fluoride (20 µg/ml)	BDH0837-125ML

*not in Canada yet

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Chromatography can be a complex technique whether you are doing straightforward analysis or large-scale biomanufacturing production. Avantor[®] has the resources to make your chromatography projects run efficiently and effectively.

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