



If you've been searching for an atypical Ion Chromatography standard, look no further.

Over the years, we've developed the most complete line of IC standards on the market. Our technicians have stabilized more than a dozen rare anion and cation standards that you won't find anywhere else.

Product Innovation —

An integral part of how we flex to your specs.

- ✓ Up to four-year shelf life
- ✓ Traceable to NIST SRMs
- ✓ Produced under ISO 9001
- ✓ Produced under ISO 17025
- ✓ Produced under ISO 17034
- ✓ Assayed by validated Wet Chemical procedures
- ✓ Assayed by validated IC procedures

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Custom anion standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Acetate, $C_2H_3O_2^-$	H ₂ O	Sodium acetate	125 mL	ICOAC1-125ML
			500 mL	ICOAC1-500ML
Adipate, $C_6H_8O_4^{-2}$	H ₂ O	Adipic acid	125 mL	ICADP1-125ML
			500 mL	ICADP1-500ML
Benzoate, $C_6H_5CO_2^-$	H ₂ O	Benzoic acid	125 mL	ICBEN1-125ML
			500 mL	ICBEN1-500ML
Bromate, BrO_3^-	H ₂ O	KBrO ₃	125 mL	ICBRO31-125ML
			500 mL	ICBRO31-500ML
Bromide, Br^-	H ₂ O	KBr	125 mL	ICBR1-125ML
			500 mL	ICBR1-500ML
Butyrate, $C_4H_7O_2^-$	H ₂ O	Butyric acid	125 mL	ICBTR1-125ML
			500 mL	ICBTR1-500ML
Carbonate, CO_3^{-2}	H ₂ O	Na ₂ CO ₃	125 mL	ICCO31-125ML
			500 mL	ICCO31-500ML
Chlorate, ClO_3^-	H ₂ O	KClO ₃	125 mL	ICCLO31-125ML
			500 mL	ICCLO31-500ML
Chloride, Cl^-	H ₂ O	KCl	125 mL	ICCL1-125ML
			500 mL	ICCL1-500ML
Chlorite, ClO_2^-	H ₂ O	NaClO ₂	125 mL	ICCLO21-125ML
			500 mL	ICCLO21-500ML
Chromate, CrO_4^{-2}	H ₂ O	(NH ₄) ₂ Cr ₂ O ₇	125 mL	ICCRO41-125ML
			500 mL	ICCRO41-500ML
Citrate, $C_6H_5O_7^{-3}$	H ₂ O	Citric acid	125 mL	ICCIT1-125ML
			500 mL	ICCIT1-500ML
Cyanide, NaCN	H ₂ O	Sodium cyanide	20 mL	CN-1000-25-20ML
Fluoride, F^-	H ₂ O	NaF	125 mL	ICF1-125ML
			500 mL	ICF1-500ML
Formate, HCO_2^-	H ₂ O	Sodium formate	125 mL	ICHCO1-125ML
			500 mL	ICHCO1-500ML
Glutarate, $C_5H_6O_4^{-2}$	H ₂ O	Glutaric acid	125 mL	ICGTR1-125ML
			500 mL	ICGTR1-500ML
Glycolate, $C_2H_3O_3^-$	H ₂ O	Glycolic acid	125 mL	ICGLY1-125ML
			500 mL	ICGLY1-500ML
Iodide, I^-	H ₂ O / stabilizer	NH ₄ I	125 mL	ICI1-125ML
			500 mL	ICI1-500ML
Lactate, $C_3H_5O_3^-$	H ₂ O	Lactic acid	125 mL	ICLCT1-125ML
			500 mL	ICLCT1-500ML
Malate, $C_4H_4O_5^{-2}$	H ₂ O	Malic acid	125 mL	ICMLA1-125ML
			500 mL	ICMLA1-500ML
Maleate, $C_4H_2O_4^{-2}$	H ₂ O	Maleic acid	125 mL	ICMLE1-125ML
			500 mL	ICMLE1-500ML
Malonate, $C_3H_2O_4^{-2}$	H ₂ O	Malonic acid	125 mL	ICMLO1-125ML
			500 mL	ICMLO1-500ML
Methanesulfonate, $CH_3SO_3^-$	H ₂ O	Methanesulfonic acid	125 mL	ICMSA1-125ML
			500 mL	ICMSA1-500ML
Nitrate, NO_3^-	H ₂ O	NaNO ₃	125 mL	ICNO31-125ML
			500 mL	ICNO31-500ML

1,000 µg/mL Anions

Custom anion standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Nitrate as Nitrogen	H ₂ O	NaNO ₃	125 mL	ICNNO31-125ML
			500 mL	ICNNO31-500ML
Nitrilotriacetate, NC ₆ H ₆ O ₆ ⁻³	H ₂ O	Nitrilotriacetic acid	125 mL	ICNTA1-125ML
			500 mL	ICNTA1-500ML
Nitrite, NO ₂ ⁻	H ₂ O	NaNO ₂	125 mL	ICNO21-125ML
			500 mL	ICNO21-500ML
Nitrite as Nitrogen	H ₂ O	NaNO ₂	125 mL	ICNNO21-125ML
			500 mL	ICNNO21-500ML
Oxalate, C ₂ O ₄ ⁻²	H ₂ O	Sodium oxalate	125 mL	ICCOXA1-125ML
			500 mL	ICCOXA1-500ML
Perchlorate, ClO ₄ ⁻	H ₂ O	KClO ₄	125 mL	ICCLO41-125ML
			500 mL	ICCLO41-500ML
Phosphate, PO ₄ ⁻³	H ₂ O	NH ₄ H ₂ PO ₄	125 mL	ICPO41-125ML
			500 mL	ICPO41-500ML
Phosphate as Phosphorus	H ₂ O	NH ₄ H ₂ PO ₄	125 mL	ICPPO41-125ML
			500 mL	ICPPO41-500ML
Phthalate, C ₆ H ₄ (CO ₂) ₂ ⁻²	H ₂ O	Potassium hydrogen phthalate	125 mL	ICKHP1-125ML
			500 mL	ICKHP1-500ML
Propionate, C ₂ H ₅ CO ₂ ⁻	H ₂ O	Sodium propionate	125 mL	ICOPR1-125ML
			500 mL	ICOPR1-500ML
Succinate, C ₄ H ₄ O ₄ ⁻²	H ₂ O	Succinic acid	125 mL	ICSCC1-125ML
			500 mL	ICSCC1-500ML
Sulfate, SO ₄ ⁻²	H ₂ O	K ₂ SO ₄	125 mL	ICSO41-125ML
			500 mL	ICSO41-500ML
Tartrate, C ₄ H ₄ O ₆ ⁻²	H ₂ O	Tartaric acid	125 mL	ICTRTR1-125ML
			500 mL	ICTRTR1-500ML
Thiocyanate, SCN ⁻	H ₂ O	KSCN	125 mL	ICSCN1-125ML
			500 mL	ICSCN1-500ML
Thiosulfate, S ₂ O ₃ ⁻²	H ₂ O	Sodium thiosulfate	125 mL	ICS2O31-125ML
			500 mL	ICS2O31-500ML

Custom anion standards are available upon request.

10,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
Chloride, Cl ⁻	H ₂ O	KCl	125 mL	ICCL10-125ML
			500 mL	ICCL10-500ML
Sulfate, SO ₄ ⁻²	H ₂ O	K ₂ SO ₄	125 mL	ICSO410-125ML
			500 mL	ICSO410-500ML

Custom anion standards are available upon request.

100 ppm

ANALYTE	MATRIX	µg/mL	VOLUME	CATALOG #
Nitrite, NO ₂ ⁻	H ₂ O	100	125 mL	ICNO2-100PPM-125ML
			500 mL	ICNO2-100PPM-500ML

100 ppm

1,000 µg/mL Cations

Custom cation standards are available upon request.

1,000 µg/mL

ANALYTE	MATRIX	STARTING MATERIAL	VOLUME	CATALOG #
3-Methoxypropylamine $\text{CH}_3\text{O}(\text{CH}_2)_3\text{NH}_2$	HCl	3-Methoxypropylamine	125 mL	ICMPA1-125ML
			500 mL	ICMPA1-500ML
Ammonium, NH_4^+	H_2O	NH_4Cl	125 mL	ICNH41-125ML
			500 mL	ICNH41-500ML
Ammonium as Nitrogen	H_2O	NH_4Cl	125 mL	ICNNH41-125ML
			500 mL	ICNNH41-500ML
Barium, Ba^{+2}	HNO_3	$\text{Ba}(\text{NO}_3)_2$	125 mL	ICBA1-125ML
			500 mL	ICBA1-500ML
Calcium, Ca^{+2}	HNO_3	CaO	125 mL	ICCA1-125ML
			500 mL	ICCA1-500ML
Cesium, Cs^+	HNO_3	CsNO_3	125 mL	ICCS1-125ML
			500 mL	ICCS1-500ML
Diethanolamine, $(\text{HOCH}_2\text{CH}_2)_2\text{NH}$	H_2O	Diethanolamine	125 mL	ICDEA1-125ML
			500 mL	ICDEA1-500ML
Dimethylamine, $\text{NH}(\text{CH}_3)_2$	HCl	Dimethylamine	125 mL	ICDMA1-125ML
			500 mL	ICDMA1-500ML
Lithium, Li^+	HNO_3	Li_2CO_3	125 mL	ICLI1-125ML
			500 mL	ICLI1-500ML
Magnesium, Mg^{+2}	HNO_3	Mg metal	125 mL	ICMG1-125ML
			500 mL	ICMG1-500ML
Monoethanolamine, $\text{HOCH}_2\text{CH}_2\text{NH}_2$	H_2O	Monoethanolamine	125 mL	ICMEA1-125ML
			500 mL	ICMEA1-500ML
Monomethylamine, NH_2CH_3	HCl	Monomethylamine	125 mL	ICMMA1-125ML
			500 mL	ICMMA1-500ML
Potassium, K^+	HNO_3	KNO_3	125 mL	ICK1-125ML
			500 mL	ICK1-500ML
Rubidium, Rb^+	HNO_3	RbNO_3	125 mL	ICRB1-125ML
			500 mL	ICRB1-500ML
Sodium, Na^+	HNO_3	Na_2CO_3	125 mL	ICNA1-125ML
			500 mL	ICNA1-500ML
Strontium, Sr^{+2}	HNO_3	SrCO_3	125 mL	ICSR1-125ML
			500 mL	ICSR1-500ML
Tetramethylammonium, $\text{N}^+(\text{CH}_3)_4$	H_2O	Tetramethylammonium hydroxide	125 mL	ICTMAH1-125ML
			500 mL	ICTMAH1-500ML
Triethanolamine, $(\text{HOCH}_2\text{CH}_2)_3\text{N}$	H_2O	Triethanolamine	125 mL	ICTEA1-125ML
			500 mL	ICTEA1-500ML
Triethylamine, $(\text{CH}_3\text{CH}_2)_3\text{N}$	HCl	Triethylamine	125 mL	ICTA1-125ML
			500 mL	ICTA1-500ML
Trimethylamine, $(\text{CH}_3)_3\text{N}$	HCl	Trimethylamine	125 mL	ICTMA1-125ML
			500 mL	ICTMA1-500ML

Anion Calibration Standard			
IC-FAS-1A I		Matrix: H ₂ O	
IC-FAS-1A-125ML		Volume: 125 mL	
IC-FAS-1A-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Br ⁻	100	NO ₂ ⁻	100
Cl ⁻	30	PO ₄ ⁻³	150
F ⁻	20	SO ₄ ⁻²	150
NO ₃ ⁻	100		

Anion Calibration Standard			
IV-STOCK-59 I		Matrix: H ₂ O	
IV-STOCK-59-125ML		Volume: 125 mL	
IV-STOCK-59-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Br ⁻	1000	NO ₂ ⁻	1000
Cl ⁻	1000	PO ₄ ⁻³	1000
F ⁻	1000	SO ₄ ⁻²	1000
NO ₃ ⁻	1000		

Cation Calibration Standard			
IC-SCS1 I		Matrix: HNO ₃	
IC-SCS1-125ML		Volume: 125 mL	
IC-SCS1-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ca ⁺²	1,000	Mg ⁺²	200
K ⁺	200	Na ⁺	200
Li ⁺	50	NH ₄ ⁺	400

Used for daily calibration.

Anion Mix A	
IV-STOCK-61	Matrix: H ₂ O
IV-STOCK-61-125ML	Volume: 125 mL
IV-STOCK-61-500ML	Volume: 500 mL
Analyte	Range
Br ⁻	20
F ⁻	10
NO ₂ ⁻	20
SO ₄ ⁻²	30
Cl ⁻	20
NO ₃ ⁻	20
PO ₄ ⁻³	30

Cation Calibration Standard			
IV-STOCK-7 I		Matrix: HNO ₃	
IV-STOCK-7-125ML		Volume: 125 mL	
IV-STOCK-7-500ML		Volume: 500 mL	
Analyte	µg/mL	Analyte	µg/mL
Ba ⁺²	100	Mn ⁺²	100
Ca ⁺²	100	Na ⁺	100
K ⁺	100	NH ₄ ⁺	100
Li ⁺	100	Sr ⁺²	100
Mg ⁺²	100		

Used for daily calibration.

Cation Mix B	
IV-STOCK-62	Matrix: H ₂ O
IV-STOCK-62-125ML	Volume: 125 mL
IV-STOCK-62-500ML	Volume: 500 mL
Analyte	Range
Br ⁻	20
F ⁻	10
NO ₂ ⁻	20
SO ₄ ⁻²	30
Cl ⁻	20
NO ₃ ⁻	20
PO ₄ ⁻³	30

I Common Multi-Ion Standards

ION CHROMATOGRAPHY MULTI-ION STANDARDS

Multi-Ion Standards

Anion Mix 4	
IV-STOCK-63	Matrix: H ₂ O
IV-STOCK-63-125ML IV-STOCK-63-500ML	Volume: 125 mL Volume: 500 mL
Analyte	Range
Br ⁻	40
F ⁻	20
NO ₂ ⁻	40
Cl ⁻	40
NO ₃ ⁻	40
SO ₄ ⁻²	40

Anion Mix 5	
IV-STOCK-64	Matrix: H ₂ O
IV-STOCK-64-125ML IV-STOCK-64-500ML	Volume: 125 mL Volume: 500 mL
Analyte	Range
Br ⁻	50
Cl ⁻	50
Fl ⁻	25
NO ₃ ⁻	50
NO ₂ ⁻	50
PO ₄ ⁻³	50
SO ₄ ⁻²	50

Eluent Concentrates

Custom eluent concentrates are available upon request.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate		
ELUENT1817-100ML ELUENT1817-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 1.8 mM CO ₃ ⁻² / 1.7 mM HCO ₃ ⁻ eluent.		

0.35 M Sodium Carbonate/0.10 M Sodium Bicarbonate		
ELUENT3510-100ML ELUENT3510-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 3.5 mM CO ₃ ⁻² / 1.0 mM HCO ₃ ⁻ eluent.		

0.5 M Sodium Bicarbonate		
BICARB-100ML BICARB-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of various CO ₃ ⁻² / HCO ₃ ⁻ eluents.		

0.5 M Sodium Carbonate		
CARB-100ML CARB-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of various CO ₃ ⁻² / HCO ₃ ⁻ eluents.		

1.8 M Methanesulfonic Acid		
MSAELUENT-100ML MSAELUENT-500ML	Volume: 100 mL Volume: 500 mL	Matrix: H ₂ O Dilution: 1:100
For preparation of 18 mM CH ₃ SO ₃ H eluent for analyzing cations.		

300.0 Rev. 2.1 Part A / 300.1 Part A Custom EPA standards are available upon request.

0.18 M Sodium Carbonate/0.17 M Sodium Bicarbonate		
ELUENT1817-100ML	Volume: 100 mL	Matrix: H ₂ O
ELUENT1817-500ML	Volume: 500 mL	Dilution 1:100

For preparation of 1.8 mM CO₃²⁻ / 1.7 mM HCO₃⁻ eluent.

Calibration Standard			
300-CAL-A-125ML		Volume: 125 mL	Matrix: H ₂ O
300-CAL-A-500ML		Volume: 500 mL	Dilution 1:10 to 1:100
Analyte	µg/mL	Analyte	µg/mL
Br ⁻	100	Nitrite as Nitrogen	30
Cl ⁻	30	Nitrate as Nitrogen	25
F ⁻	20	Phosphate as Phosphorus	50
SO ₄ ⁻²	150		

Dichloroacetate Standard		
ICDCA-S-125ML	Volume: 125 mL	Matrix: H ₂ O
ICDCA-S-500ML	Volume: 500 mL	
Analyte	µg/mL	
Cl ₂ HC ₂ O ₂ ⁻	500	

For use as a surrogate analyte.

Laboratory Fortification Stock Standard			
300-LFS-A-125ML		Volume: 125 mL	Matrix: H ₂ O
300-LFS-A-500ML		Volume: 500 mL	Dilution 1:100 to 1:1,000
Analyte	µg/mL	Analyte	µg/mL
Br ⁻	1,000	Nitrite as Nitrogen	300
Cl ⁻	300	Nitrate as Nitrogen	300
F ⁻	200	Phosphate as Phosphorus	500
SO ₄ ⁻²	1,500		

This standard is used to prepare the Laboratory Fortified Blank and the Laboratory Fortified Sample Matrix

QC Standard/Instrument Performance Check [†]			
QCP-QCS-5-125ML		Volume: 125 mL	Matrix: H ₂ O
QCP-QCS-5-500ML		Volume: 500 mL	Dilution 1:10 to 1:100
Analyte	µg/mL	Analyte	µg/mL
Br ⁻	50	Nitrite as Nitrogen	15
Cl ⁻	15	Nitrate as Nitrogen	10
F ⁻	10	Phosphate as Phosphorus	25
SO ₄ ⁻²	75		

[†]Manufactured from in-house Second Source concentrates.

Can be used to prepare the QC Sample or the IPC Solution.

300.1 Part B Custom EPA standards are available upon request.

Bromate	
ICBR031	Matrix: H ₂ O
ICBR031-125ML ICBR031-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
BrO ₃ ⁻	1,000

Bromide	
ICBR1	Matrix: H ₂ O
ICBR1-125ML ICBR1-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Br ⁻	1,000

Chlorite	
ICCL021	Matrix: H ₂ O
ICCL021-125ML ICCL021-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
ClO ₂ ⁻	1,000

NOTE: Contains less than 10ppm ClO₃⁻.

Chlorate	
ICCL031	Matrix: H ₂ O
ICCL031-125ML ICCL031-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
ClO ₃ ⁻	1,000

Dichloracetate Standard	
ICDCA-S	Matrix: H ₂ O
ICDCA-S-125ML ICDCA-S-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
Cl ₂ HC ₂ O ₂ ⁻	500

For use as a surrogate analyte.

Custom EPA standards are available upon request.

1,400 µmhos/cm Conductivity at 25°C	
CON1400-25	Matrix: H ₂ O
CON1400-25-125ML CON1400-25-500ML CON1400-25-1L	Volume: 125 mL Volume: 500 mL Volume: 1 L

Perchlorate	
ICCL041	Matrix: H ₂ O
ICCL041-125ML ICCL041-500ML	Volume: 125 mL Volume: 500 mL
Analyte	µg/mL
ClO ₄ ⁻	1,000