

# AccuSPEC Ion Chromatography Standards

Ion Chromatography is a vital component of inorganic analysis. Traditional calibration standards and eluents as well as custom solutions are available.

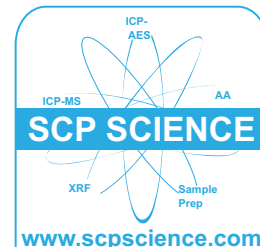


- ✓ Available in 2 volumes ( 125 & 500 ml)
- ✓ Complete with a Certificate of Analysis
- ✓ Direct NIST traceability

Anion Standard			Catalog Number		Catalog Number	
			1000 µg/ml		10,000 µg/ml	
		Matrix	125 ml	500 ml	125 ml	500 ml
Acetate	CH <sub>3</sub> COO <sup>-</sup>	H <sub>2</sub> O	250-220-100	250-220-101		
Ammonia-Nitrogen	NH <sub>3</sub> as N	H <sub>2</sub> O	250-220-115	250-220-116		
Bromate	BrO <sub>3</sub> <sup>-</sup>	H <sub>2</sub> O	250-220-220	250-220-221		
Bromide	Br <sup>-</sup>	H <sub>2</sub> O	250-220-235	250-220-236	250-221-235	250-221-236
Chlorate	ClO <sub>3</sub> <sup>-</sup>	H <sub>2</sub> O	250-220-355	250-220-356	250-180-231	250-180-235
Chloride	Cl <sup>-</sup>	H <sub>2</sub> O	250-220-370	250-220-371		
Fluoride	F <sup>-</sup>	H <sub>2</sub> O	250-220-400	250-220-401	250-221-400	250-221-401
Formate	HCOO <sup>-</sup>	H <sub>2</sub> O	250-220-415	250-220-416		
Nitrate	NO <sub>3</sub> <sup>-</sup>	H <sub>2</sub> O	250-220-505	250-220-506	250-221-505	250-221-506
Nitrate-Nitrogen	NO <sub>3</sub> <sup>-</sup> as N	H <sub>2</sub> O	250-220-520	250-220-521		
Nitrite	NO <sub>2</sub> <sup>-</sup>	H <sub>2</sub> O	250-220-535	250-220-536	250-221-535	250-221-536
Nitrite-Nitrogen	NO <sub>2</sub> <sup>-</sup> as N	H <sub>2</sub> O	250-220-550	250-220-551		
Oxalate	C <sub>2</sub> O <sub>4</sub> <sup>2-</sup>	H <sub>2</sub> O	250-220-565	250-220-566		
Perchlorate	ClO <sub>4</sub> <sup>-</sup>	H <sub>2</sub> O	250-220-580	250-220-581		
Phosphate	PO <sub>4</sub> <sup>3-</sup>	H <sub>2</sub> O	250-220-595	250-220-596	250-221-595	250-221-596
Phosphate-Phosphorus	PO <sub>4</sub> <sup>3-</sup> as P	H <sub>2</sub> O	250-220-610	250-220-611		
Sulfate	SO <sub>4</sub> <sup>2-</sup>	H <sub>2</sub> O	250-220-700	250-220-701	250-221-700	250-221-701
Sulfate-Sulfur	SO <sub>4</sub> <sup>2-</sup> as S	H <sub>2</sub> O	250-220-715	250-220-716		

Cation Standard			Catalog Number		Catalog Number	
			1000 µg/ml		10,000 µg/ml	
		Matrix	125 ml	500 ml	125 ml.	500 ml
Ammonium	NH <sub>4</sub> <sup>+</sup>	H <sub>2</sub> O	250-220-130	250-220-131		
Barium	Ba <sup>2+</sup>	H <sub>2</sub> O	250-220-175	250-220-176		
Calcium	Ca <sup>2+</sup>	H <sub>2</sub> O	250-220-250	250-220-251	250-221-250	250-221-251
Lithium	Li <sup>+</sup>	H <sub>2</sub> O	250-220-445	250-220-446		
Magnesium	Mg <sup>2+</sup>	H <sub>2</sub> O	250-220-460	250-220-461	250-221-460	250-221-461
Potassium	K <sup>+</sup>	H <sub>2</sub> O	250-220-625	250-220-626	250-221-625	250-221-626
Sodium	Na <sup>+</sup>	H <sub>2</sub> O	250-220-640	250-220-641	250-221-640	250-221-641
Strontium	Sr <sup>2+</sup>	H <sub>2</sub> O	250-220-685	250-220-686		

\*Applies to second 500 ml of the same standard.



Sample Prep

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**Multi-Ion Standard 1**

Ion	Concentration
Cl <sup>-</sup>	30 µg/ml
F <sup>-</sup>	20 µg/ml
NO <sub>3</sub> <sup>-</sup>	100 µg/ml
PO <sub>4</sub> <sup>3-</sup>	150 µg/ml
SO <sub>4</sub> <sup>2-</sup>	150 µg/ml
<b>Matrix: H<sub>2</sub>O</b>	
<b>Ordering Information</b>	
Volume	Catalog Number
125 ml	140-315-001
500 ml	140-315-005

**Multi-Ion Standard 2**

Solution A		Solution B	
Ion	Concentration	Ion	Concentration
Cl <sup>-</sup>	10 µg/ml	NO <sub>2</sub> <sup>-</sup>	10 µg/ml
F <sup>-</sup>	10 µg/ml		
NO <sub>3</sub> <sup>-</sup>	10 µg/ml		
PO <sub>4</sub> <sup>3-</sup>	10 µg/ml		
SO <sub>4</sub> <sup>2-</sup>	10 µg/ml		
<b>Matrix: H<sub>2</sub>O</b>		<b>Matrix: H<sub>2</sub>O</b>	
<b>Ordering Information</b>		<b>Ordering Information</b>	
Volume	Catalog Number	Volume	Catalog Number
125 ml	141-315-011	125 ml	141-315-021
500 ml	141-315-015	500 ml	141-315-025

**Solution A & B Set**

Volume	Catalog Number
125 ml	140-315-011
500 ml	140-315-015

**Multi-Ion Standard 3**

Solution A		Solution B	
Ion	Concentration	Ion	Concentration
Br <sup>-</sup>	100 µg/ml	NO <sub>2</sub> <sup>-</sup>	100 µg/ml
Cl <sup>-</sup>	100 µg/ml		
F <sup>-</sup>	100 µg/ml		
NO <sub>3</sub> <sup>-</sup>	100 µg/ml		
PO <sub>4</sub> <sup>3-</sup>	100 µg/ml		
SO <sub>4</sub> <sup>2-</sup>	100 µg/ml		
<b>Matrix: H<sub>2</sub>O</b>		<b>Matrix: H<sub>2</sub>O</b>	
<b>Ordering Information</b>		<b>Ordering Information</b>	
Volume	Catalog Number	Volume	Catalog Number
125 ml	251-225-011	125 ml	251-225-021
500 ml	251-225-015	500 ml	251-225-025

**Solution A & B Set**

Volume	Catalog Number
125 ml	250-225-001
500 ml	250-225-005

**Multi-Ion Standard 4**

Solution A		Solution B	
Ion	Concentration	Ion	Concentration
Br <sup>-</sup>	1000 µg/ml	NO <sub>2</sub> <sup>-</sup>	1000 µg/ml
Cl <sup>-</sup>	1000 µg/ml		
F <sup>-</sup>	1000 µg/ml		
NO <sub>3</sub> <sup>-</sup>	1000 µg/ml		
PO <sub>4</sub> <sup>3-</sup>	1000 µg/ml		
SO <sub>4</sub> <sup>2-</sup>	1000 µg/ml		
<b>Matrix: H<sub>2</sub>O</b>		<b>Matrix: H<sub>2</sub>O</b>	
<b>Ordering Information</b>		<b>Ordering Information</b>	
Volume	Catalog Number	Volume	Catalog Number
125 ml	251-225-101	125 ml	250-220-535
500 ml	251-225-105	500 ml	250-220-536

**Solution A & B Set**

Volume	Catalog Number
125 ml	250-225-101
500 ml	250-225-105

Eluent Solutions	Catalog Number				
	Concentration	100 ml	500 ml	1 L	10 L
Bicarbonate/Sodium Hydroxide	0.003/0.002 M				250-220-190**
Bicarbonate/Sodium Hydroxide Concentrate	0.3/0.2 M	250-220-205			
Carbonate/Bicarbonate	0.0018/0.0017 M				250-220-265**
Carbonate/Bicarbonate	0.0022/0.0028 M				250-220-280**
Carbonate/Bicarbonate	0.003/0.0024 M				250-220-295**
Carbonate/Bicarbonate concentrate	0.18/0.17 M	250-220-310			
Carbonate/Bicarbonate concentrate	0.22/0.28 M	250-220-325			
Carbonate/Bicarbonate concentrate	0.30/0.24 M	250-220-340			
Hydrochloric Acid Eluent concentrate, HCl	1 M	250-220-430	250-221-250	250-220-432	
Methanesulfuric Acid concentrate, CH <sub>3</sub> SO <sub>3</sub> H	1 M			250-220-490	
Methanesulfuric Acid, CH <sub>3</sub> SO <sub>3</sub> H	20 mM			250-220-475	
Sodium Bicarbonate Eluent con., NaHCO <sub>3</sub>	0.5 M	250-220-655	250-221-625	250-220-657	
Sodium Carbonate Eluent con., Na <sub>2</sub> CO <sub>3</sub>	0.5 M	250-220-670	250-221-640	250-220-672	

\*\*Also available in 20 L

Chelation Solutions	Catalog Number				
	Concentration	500 ml	1L	5 L	10 L
Ammonium Acetate, CH <sub>3</sub> COONH <sub>4</sub>	2 M	250-220-145	250-220-146	250-220-147	
Ammonium Nitrate, NH <sub>4</sub> NO <sub>3</sub>	0.1 M	250-220-160	250-220-161	250-220-162	
Nitric acid, HNO <sub>3</sub>	2 M	250-035-100	250-035-101	250-035-102	250-035-103**

\*\*Also available in 20 L