



Your Discrete Analyzer is built for speed, accuracy, and high throughput — it's time your reagents kept up.

Your SEAL discrete analyzer is a high-performance instrument, engineered for precision and efficiency. But even the best instruments are only as good as the reagents they rely on. House-made solutions might slow you down, introduce errors, and waste valuable time.

Why choose ready-to-use discrete analyzer reagents from Inorganic Ventures?

- **Achieve Faster Testing:** Maximize sample throughput while minimizing manual preparation.
- **Guarantee Longer Stability:** Stable for up to 24 months while refrigerated.
- **Ensure Data Accuracy:** Pre-made reagents eliminate preparation errors and save valuable lab time when switching from method to method.
- **Boost Productivity:** Handle more samples with less effort, letting your team focus on what matters most.
- **Seamless integration:** Specifically designed to accompany SEAL discrete analyzers and methods for optimal performance.



Upgrade your reagents by ordering conveniently online from Inorganic Ventures.

[Get started here.](#)



Product Overview

Find the Right Reagents for your Methods:

ANALYTE	METHOD REFERENCED	REAGENT	REAGENT DESCRIPTION
AMMONIA	SEAL EPA-148, EPA-150, EPA-153 ISO 15923-1, ISO 7150/1, EPA Method 350.1 Standard Methods 4500-NH ₃ F	SEALAnalyticalAQ NH3 DCI	Dichloroisocyanurate Reagent for Ammonia Analysis
AMMONIA	SEAL EPA-148, EPA-150, EPA-153 ISO 15923-1, ISO 7150/1 EPA Method 350.1 Standard Methods 4500-NH ₃ F	SEALAnalyticalAQ NH3 Salicylate	Salicylate Reagent for Ammonia Analysis
CHLORIDE	SEAL EPA-105, EPA-124 EPA Method 325.2 Standard Methods 4500-Cl-E	SEALAnalyticalAQ Chloride Rgt	Combined Color Reagent for Chloride Analysis
CS HARDNESS	SEAL EPA-106 EPA Method 130.1 Standard Methods 2340-C	SEALAnalyticalAQ Hard-Calmagite	Calmagite reagent for Total Hardness analysis
CS HARDNESS	SEAL EPA-106 EPA Method 130.1 Standard Methods 2340-C	SEALAnalyticalAQ Hard-Buffer	Mg-EDTA Buffer for Total Hardness analysis
NITRATE + NITRITE – Hydrazine Reduction	SEAL EPA-141 EPA 353.1 Standard Methods 4500-NO ₃ H	SEALAnalyticalAQ NOx Hyd-Buffer	Alkaline Buffer Reagent for Nitrate/Nitrite Analysis utilizing the Hydrazine reduction method
NITRATE + NITRITE – Hydrazine Reduction	SEAL EPA-141 EPA 353.1 Standard Methods 4500-NO ₃ H	SEALAnalyticalAQ NOx Hydrazine	Working Hydrazine Reagent for Nitrate/Nitrite Analysis utilizing the Hydrazine reduction method
NITRATE + NITRITE – Hydrazine Reduction	SEAL EPA-141 EPA 353.1 Standard Methods 4500-NO ₃ H	SEALAnalyticalAQ NOx Hyd-Color	Sulfanilamide-NEDD Reagent for Nitrate/Nitrite Analysis utilizing the Hydrazine reduction method
NITRATE + NITRITE – Cd Coil Reduction	SEAL EPA-114, EPA-126, EPA-127 EPA 353.2 Standard Methods 4500-NO ₃ F	SEALAnalyticalAQ NOx Cad-Buffer	Working Buffer Reagent for Nitrate/Nitrite Analysis utilizing the Cadmium Coil reduction method
NITRATE + NITRITE – Cd Coil Reduction	SEAL EPA-114, EPA-126, EPA-127 EPA 353.2 Standard Methods 4500-NO ₃ F	SEALAnalyticalAQ NOx Cad-Color	Sulfanilamide-NEDD Reagent for Nitrate/Nitrite Analysis utilizing the Cadmium Coil reduction method
PHOSPHATE, Ortho	SEAL EPA-118 EPA Method 365.1 Rev 2.0 Standard Methods 4500-P F ISO Method 15923-1	SEALAnalyticalAQ P04 Color Rgt	Working Color Reagent for Phosphate Analysis by Discrete Analyzer
PHOSPHATE, Ortho	SEAL EPA-118 EPA Method 365.1 Rev 2.0 Standard Methods 4500-P F ISO Method 15923-1	SEALAnalyticalAQ P04 Ascorbic	Ascorbic Acid Reagent for Phosphate Analysis by Discrete Analyzer
SILICA	SEAL EPA-121 EPA 370.1 Standard Methods 4500-SiO ₂ C	SEALAnalyticalAQ SiO2-Molybdate	Ammonium Molybdate Reagent (10% w/v) for Silica Analysis
SILICA	SEAL EPA-121 EPA 370.1 Standard Methods 4500-SiO ₂ C	SEALAnalyticalAQ SiO2-OxalicAcid	Oxalic Acid Reagent (10% w/v) for Silica Analysis
SULFATE	SEAL EPA-165-C Rev. 4 EPA Method 375.4 ASTM D516-11 Standard Methods 4500-SO ₄ ⁻² E ISO Method 15923-1	SEALAnalyticalAQ Sulfate Rgt	Turbidimetric Reagent for Sulfate Analysis

CS COMING SOON!

Time Study Comparison

Ready-to-Use Reagents: A Smarter Way to Save Time and Resources

Time and Resources to Prepare In-House

	PHOSPHATE METHOD		SULFATE METHOD	CHLORIDE METHOD
	SEAL EPA-118 EPA Method 365.1 Rev 2.0 ISO Method 15923-1		SEAL EPA-165 ISO Method 15923-1	SEAL EPA-105, EPA-124 EPA Method 325.2 ISO Method 15923-1
	Color Reagent	Ascorbic Reagent	Turbidity Reagent	Combined Color Reagent
Starting Materials Required	Potassium Antimonyl Tartrate	Ascorbic Acid	Barium Chloride	Ferric Nitrate
	Ammonium Molybdate		Sodium Chloride	Mercuric Thiocyanate
	Sulfuric acid		Gelatin	Methanol
Time to Prepare (2–5L)	1 hour 30 minutes	20 minutes	1 hour 30 minutes	1 hour 45 minutes
Projected Stability	2 months	1 week	1 month	3 months
Notes	Sulfuric Acid will need time to cool	—	Gelatin needs to be qualified	Needs to be filtered before use

	TOTAL HARDNESS METHOD		SILICA METHOD	
	<div>CS</div> SEAL EPA-106 EPA Method 130.1 Standard Methods 2340-C		SEAL EPA-121 EPA Method 370.1 Standard Methods 4500-SiO ₂ C	
	Calmagite/Buffer Reagent	Mg-EDTA Reagent	Ammonium Molybdate Reagent	Oxalic Acid Reagent
Starting Materials Required	Calmagite	Disodium EDTA Magnesium Salt Dihydrate	Ammonium Molybdate Tetrahydrate	Oxalic Acid Dihydrate
	Sodium Dodecyl Sulfate			
	Ammonium Chloride	Sodium Dodecyl Sulfate	Sodium Hydroxide	
	Ammonium Hydroxide			
Time to Prepare (2-5L)	2 hours	1 hour 30 minutes	1 hour 30 minutes	30 minutes
Projected Stability	1 week	2 months	1 month	3 days
Notes	SDS degrades reagent leading to shorter stability periods – Working with concentrated NH4OH is smelly and can cause respiratory irritation		An alkaline EDTA rinse should be used following these reagents – Oxalic Acid may fall out of solution at refrigerated temperatures but will dissolve again once the solution is at room temperature, as it is intended to be used.	

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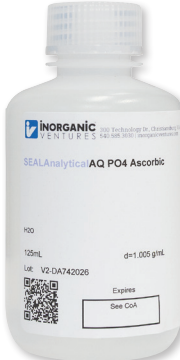


Time Study Comparison

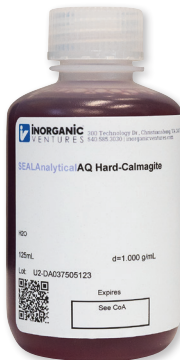


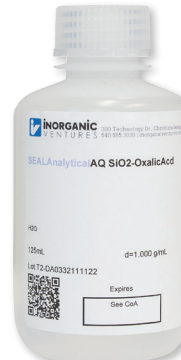
Ready-to-Use Reagents: A Smarter Way to Save Time and Resources

	NITRATE/NITRITE – HYDRAZINE REDUCTION METHOD			NITRATE/NITRITE – CD COIL REDUCTION METHOD	
	SEAL EPA-141 EPA Method 353.1 Standard Methods 4500-NO ₃ H			SEAL EPA-114, EPA-126, EPA-127 EPA Method 353.2 Rev. 2.0 Standard Method 4500-NO ₃ F USGS Method I-2545-90 ASTM Method D-3867-04A	
	Alkaline Buffer Reagent	Working Hydrazine Reagent	Sulfanilamide-NEDD Reagent	Sulfanilamide-NEDD Reagent	Buffer Reagent
Starting Materials Required	Sodium Hydroxide	Hydrazine Sulfate	Phosphoric Acid	Sodium Hydroxide	Ammonium Chloride, low in Nitrate
				Phosphoric Acid	EDTA Disodium salt dihydrate
	Sodium Phosphate Dibasic Heptahydrate	Copper (II) Sulfate	Sulfanilamide	Sulfanilamide	Ammonium Hydroxide
		Zinc (II) Sulfate	N-(1-naphthyl)- Ethylenediamine Dihydrochloride	N-(1-naphthyl)- Ethylenediamine Dihydrochloride	Triton X-100
Time to Prepare (2–5L)	1 Hour	2 Hours	45 Minutes	45 Minutes	2 Hours
Projected Stability	No Estimate	1 Week	1 Month	1 Month	2 Weeks
Notes	Sulfanilamide is photosensitive and may need to be refiltered throughout use, as well as in initial manufacturing			Sulfanilamide is photosensitive and may need to be refiltered throughout use, as well as in initial manufacturing. Cd Coil needs additional solutions for priming and preparing for use.	

	AMMONIA METHOD	
	SEAL EPA-148, EPA-150, EPA-153 EPA Method 350.1 Rev. 2.0 Standard Methods 4500-NH ₃ H / 4500-NH ₃ G USGS Method 1-4523-85	
Starting Materials Required	Salicylate Reagent	DCI Reagent
	Sodium Salicylate	Sodium Hydroxide
	Sodium Citrate Dihydrate	
	Sodium Nitroferricyanide dihydrate	Sodium Dichloroisocyanurate (anhydrous or dihydrate)
Time to Prepare (2-5L)	45 Minutes	1 Hour
Projected Stability	1 Month	2 Days
Notes	Salicylate is photosensitive. Starting materials for DCI reagent should be stored in the refrigerator.	


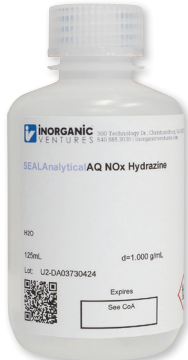

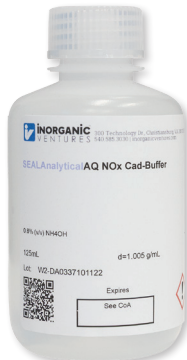

Ready-to-Use Reagents from Inorganic Ventures



	PHOSPHATE METHOD		SULFATE METHOD	CHLORIDE METHOD
	SEAL EPA-118 EPA Method 365.1 Rev 2.0 ISO Method 15923-1		SEAL EPA-165 ISO Method 15923-1	SEAL EPA-105, EPA-124 EPA Method 325.2 ISO Method 15923-1
	Color Reagent	Ascorbic Reagent	Turbidity Reagent	Combined Color Reagent
IV Reagent	SEALAnalyticalAQ P04 Color Rgt 	SEALAnalyticalAQ P04 Ascorbic 	SEALAnalyticalAQ Sulfate Rgt 	SEALAnalyticalAQ Chloride Rgt 
Guaranteed Stability	24 Months	24 Months	12 Months	24 Months

	TOTAL HARDNESS METHOD		SILICA METHOD	
	CS SEAL EPA-106 EPA Method 130.1 Standard Methods 2340-C		SEAL EPA-121 EPA Method 370.1 Standard Methods 4500-SiO ₂ C	
	Calmagite Reagent	Mg-EDTA/ Buffer Reagent	Ammonium Molybdate Reagent	Oxalic Acid Reagent
IV Reagent	SEALAnalyticalAQ Hard-Calmagite 	SEALAnalyticalAQ Hard-Buffer 	SEALAnalyticalAQ SiO2-Molybdate 	SEALAnalyticalAQ SiO2-OxalicAcid 
Guaranteed Stability	21 Months	21 Months	24 Months	24 Months

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Ready-to-Use Reagents from Inorganic Ventures

	NITRATE/NITRITE – HYDRAZINE REDUCTION METHOD			NITRATE/NITRITE – CD COIL REDUCTION METHOD	
	SEAL EPA-141 EPA Method 353.1 Standard Methods 4500-NO ₃ H			SEAL EPA-114, EPA-126, EPA-127 EPA Method 353.2 Rev. 2.0 Standard Method 4500-NO ₃ F USGS Method I-2545-90 ASTM Method D-3867-04A	
	Alkaline Buffer Reagent	Working Hydrazine Reagent	Sulfanilamide-NEDD Reagent	Buffer Reagent	Sulfanilamide-NEDD Reagent
IV Reagent	SEALAnalyticalAQ NOx Hyd-Buffer 	SEALAnalyticalAQ NOx Hydrazine 	SEALAnalyticalAQ NOx Hyd-Color 	SEALAnalyticalAQ NOx Cad-Buffer 	SEALAnalyticalAQ NOx Cad-Color 
	Guaranteed Stability	18 Months	18 Months	18 Months	12 Months

	AMMONIA METHOD	
	SEAL EPA-148, EPA-150, EPA-153 EPA Method 350.1 Rev. 2.0 Standard Methods 4500-NH ₃ H / 4500-NH ₃ G USGS Method 1-4523-85	
	Salicylate Reagent	DCI Reagent
IV Reagent	SEALAnalyticalAQ NH3 Salicylate 	SEALAnalyticalAQ NH3 DCI 
	Guaranteed Stability	15 Months