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## **ACCREDITATION / REGISTRATION**

Inorganic Ventures is an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

**DISCRETE ANALYZER REAGENT** Barium chloride dihydrate / Sodium chloride / gelatin / Hydrochloric acid solution

Catalog No: DA-SO4-TURB  
Lot No: U2-DA728440

Starting Material: Barium chloride dihydrate  
Starting Material Lot No: IV-2588

Starting Material: Sodium chloride  
Starting Material Lot No: IV-2587

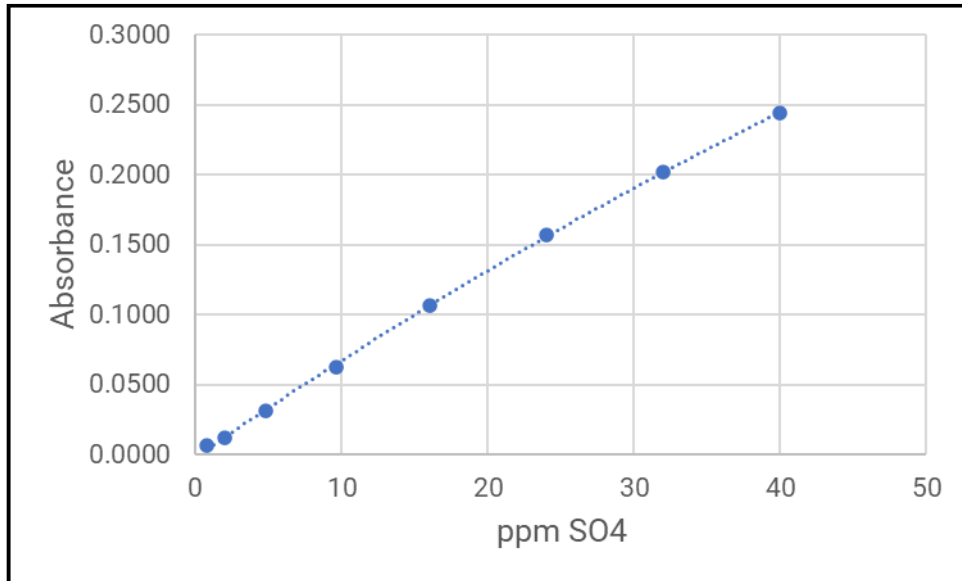
Starting Material: Gelatin  
Starting Material Lot No: IV-2400

**NOMINAL CONCENTRATION:** 10g/L Barium chloride dihydrate / 10 g/L Sodium chloride / 0.25 g/L gelatin / 0.5% (v/v) Hydrochloric acid

**This solution is a reagent and is not intended to be used as a certified reference material.**

## **PREPARATION**

This reagent solution is ready to use without further preparation for analyzing Sulfate in water utilizing discrete analyzer methods based on method chemistry described in ISO Method 15923-1. Figure 1 demonstrates a Sulfate calibration curve generated on a SEAL AQ400 discrete analyzer using this lot of reagent.



**Figure 1:** Correlation Coefficient = 0.9998 / Polynomial Order = 2

Concentration	Result	Acceptance Limits
0.8	0.0060	0.0036 – 0.0074
2	0.0121	0.0073 – 0.0151
4.8	0.0309	0.0231 – 0.0385
9.6	0.0628	0.0493 – 0.0821
16	0.1061	0.0833 – 0.1388
24	0.1575	0.1234 – 0.2056
32	0.2023	0.1575 – 0.2625
40	0.2440	0.1866 – 0.3110

**STORAGE AND HANDLING**

Store refrigerated at 4° C while in sealed TCT bag. After opening the sealed TCT bag keep cap tightly sealed when not in use. Continue to store bottle at 4° C when not in use. Do not return removed aliquots to container. Allow for reagent to reach room temperature and shake well before use.

Certification Date: 01/10/2023

Prepared By:

*Uyen Truong*

Approved By:

*Michael Z Booth*

Expiration Date: 07/10/2023

Certifying Officer:

*Paul R. Gaines*