

CALTEST SAMPLING INSTRUCTIONS- SULFIDE

Analyses and holding times- Total and Dissolved Sulfide

Analysis	Method	Container/Preservation	Holding time
Total Sulfide	SM 4500-S2 D	Glass 250 mL (preferred) or plastic. No headspace. NaOH + ZnAC pH >9 + 0-6°C.	7 days
Dissolved Sulfide	SM 4500-S2 D	Glass 250 mL. No headspace. NaOH + AlCl ₃ +0-6°C. Return sample to lab same day as collection.	7 days

Special handling instructions for containers with preservatives

1. Use gloves and safety glasses whenever handling bottles.
2. Inspect containers to confirm that they are intact, with lids secured.
3. With lid secured, inspect that there is preservative in the containers (white powder for dissolved sulfide, liquid for total sulfide).

Sampling instructions- General

1. When sampling, use gloves and safety glasses. Open the lid carefully and away from face. Use care not to spill and avoid inhaling.
2. Fill in Chain of Custody (COC) form and sample bottle label with dates, times, and locations of sampling.

Sampling instructions- Total Sulfide

1. Fill 250 mL glass container preserved with Zinc Acetate and NaOH to inside the neck of the bottle and cap. The container should have NO headspace. Do not overfill.
2. Keeping an index finger or thumb over the cap, shake bottle for 1 minute.
3. Samples must be placed on ice or refrigerated at 0–6°C/32–43°F immediately after collection and must be on ice upon receipt at the lab. The 0–6°C/32–43°F temperature criteria must be met if samples are received a day or more after collection.

Sampling instructions- Dissolved Sulfide

1. Fill 250 mL glass container preserved with AlCl₃ and NaOH to inside the neck of the bottle and cap. The container should have NO headspace. Do not overfill.
2. Keeping an index finger or thumb over the cap, shake bottle for 1 minute.
3. Return sample to laboratory the same day as collection for pH verification, decanting, and further preservation.
4. Samples must be placed on ice or refrigerated at 0–6°C/32–43°F immediately after collection and must be on ice upon receipt at the lab. The 0–6°C/32–43°F temperature criteria must be met if samples are received a day or more after collection.

Please contact Caltest Client Services with any questions: 707/258-4000 or pmgr@caltestlabs.com

