

Disinfection Byproducts - Bromate

SAMPLE COLLECTION PROCEDURE

Reference Method EPA 317.0

Read instructions carefully.

Samples may be rejected if ALL instructions are not followed.

- **Safety concerns:**

Caution! Sample bottles contain chemicals. Open containers slowly and carefully. Do not rinse out containers.

- **Sample bottle:**

- 125 mL opaque plastic bottle with 50 mg/L Ethylenediamine (EDA)

- **Shipping/sample hold time:**

- Ship immediately.

- **Sampling locations:**

- State-approved or State-accepted location listed on the Chain of Custody. If one of your locations is not in use, contact your compliance officer for direction.

- **Prior to collection:**

- If provided, remove gel packs and freeze for at least 48 hours prior to use for cooling samples in the field (until shipping with wet ice).

- **Sample collection procedure:**

1. Attach the pre-printed label to the bottle. If you do not have a pre-printed label, write the following information, using a ballpoint or permanent pen, on the generic bottle label: PWSID, PWS Name, and Location ID.
2. Remove any attachments from the sample tap.
3. Turn on the cold water tap and run for 4 to 5 minutes, or until the water temperature has stabilized, whichever is longer.
 - a. If there is only one faucet handle, make sure it is in the cold water position.
4. Reduce the flow of the water so the stream is steady and the width of a pencil.
5. Remove bottle cap and hold in hand. Do not touch the underside of the cap or the inside of the bottle.
6. Fill bottle to the shoulder. **DO NOT** overfill the container.
7. Screw the cap back on the bottle. Make sure the cap is on securely. Turn the bottle upside down to make sure the water does not leak.
8. Gently mix the sample by turning the bottle back and forth for 15 seconds.

DISINFECTION BYPRODUCTS (BROMATE)

9. Replace any attachments that were removed from the faucet or sample tap.

Complete the Chain-of-Custody form using a ballpoint or permanent pen:

1. Name of the sample collector.
2. Date and Time collected (include a.m. or p.m.).
3. Put your signature on the "Relinquished By" line, including date and time. The date and time are when the sample is put in the return mailer and sealed. If samples pass hands prior to packaging, both parties must sign, date, and time. The first party would put down the date and time of the transfer, and the second party would put down the date and time the sample is packaged.

Shipping and handling:

1. All sample containers must have cooling material (wet ice is recommended) present without evidence of sample freezing.
2. Sample temperature requirements depend on when the lab receives the sample:
 - a. Received 0 - 24 hours after collection: frozen or partially frozen (i.e., containing some solids) cooling material must be present. The temperature of the cooling material must be less than the temperature of the sample(s).
 - b. Received more than 24 hours after collection: frozen or partially frozen cooling material must be present. The temperature of the samples must be between 0.0 and 6.0° C.
3. Shipping samples:
 - a. Add enough fresh, frozen cooling material to the mailing container to maintain appropriate sample temperature as indicated above, with no evidence of freezing.
 - b. Insert the completed Chain-of-Custody lab form in a plastic zip bag and place it inside the shipping cooler.
 - c. Mail the sample as soon after collection as possible. Only collect and mail the sample on a Monday, Tuesday, or Wednesday.
4. Ship to Eurofins Eaton Analytical, LLC, using the return label included in your sample kit. It is recommended that samples arrive at the lab within 48 hours of sampling, with no more than 40 hours for transit.

Courier Service (Spee-Dee, UPS, FedEx, etc.)

Eurofins Eaton Analytical, LLC
110 South Hill Street
South Bend, IN 46617

If you have questions, call 651-201-4700, or email health.drinkingwater@state.mn.us

Minnesota Department of Health
Drinking Water Protection
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651-201-4700.*

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