

PLEASE do NOT remove crystal from vial. This is
A preservative.

6.4 Sample Collection

- 6.4.1 Collect all samples in duplicate.
- 6.4.2 Fill the sample bottles in such a manner that no air bubbles pass through the sample as the bottle is filled.
- 6.4.3 Seal the bottle so that no air bubbles are entrapped in it.
- 6.4.4 Maintain the hermetic seal on the sample bottle until analysis.
- 6.4.5 The raw source water sample history should resemble the finished drinking water. The average retention time of the finished drinking water within the water plant should be taken into account when sampling the raw source water.
- 6.4.6 Sampling from a water tap.
 - 6.4.6.1 Turn on the water and allow the system to flush until the temperature of the water has stabilized. Adjust the flow to about 500 ml/minute and collect duplicate samples from the flowing stream.
- 6.4.7 Sampling from an open body of water.
 - 6.4.7.1 Fill a 1-quart wide-mouth bottle with sample from a representative area. Carefully fill duplicate sample bottles from the 1-quart bottle as in 6.4.

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6.4.10.4 Store the blanks and the samples, collected at a given site (sample set), together in a protected area known to be free from contamination. A sample set is defined as all the samples collected at a given site (i.e., at a water treatment plant, duplicate raw source water, duplicate finished water and the duplicate sample blanks comprise the sample set).

6.5 When samples are collected and stored under these conditions, no measurable loss of trihalomethanes has been detected over extended periods of time (7). It is recommended that the samples be analyzed within 14 days of collection.

7. Extraction and Analysis

- 7.1 Remove the plungers from two 10-ml syringes and attach a closed syringe valve to each.
- 7.2 Open the sample bottle^C (or standard) and carefully pour the sample into one of the syringe barrels until it overflows. Replace the plunger and compress the sample. Open the syringe valve and vent any residue air while adjusting the sample volume to 10.0 ml. Close the valve.
- 7.3 Fill the second syringe in an identical manner from the same sample bottle. This syringe is reserved for a replicate analysis (see 8.3 and 8.4).

^CIf for any reason the chemical reducing agent has not been added to the sample, then it must be added just prior to analyses at the rate of 2.5 to 3 mg/40 ml or by adding 1 mg directly to the sample in the extraction flask.

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