

Instructions for: *WS Trihalomethanes (Cat # PT-THM-WS)*

STANDARD DESCRIPTION

- The WS THMs standard is provided in a flame sealed ampule that contains approximately 1.5 mL of concentrate.
- The WS THMs standard is packaged in methanol.
- Store the standard in the unopened ampule refrigerated (at ~4°C).

ADDITIONAL INFORMATION

- The standard has been provided as a concentrate that must be diluted prior to analysis.
- The standard has been designed and manufactured within NELAC/EPA criteria. As such, each lot of the WS THMs standards will contain all of the NELAC Accreditation Analytes listed on the Data Reporting Sheets and in these instructions.
- Due to the nature of volatile analytes, the standard must be analyzed as soon as possible after dilution.

STANDARD PREPARATION, ANALYSIS and STORAGE

1. For best results, the PT standard should be stored refrigerated and then brought to room temperature (near 20°C) when used.
2. Bring a 100 mL Class A volumetric flask to volume with volatile free deionized water.
3. Carefully open the ampule by snapping off the top at the narrow part of the neck.
4. Transfer exactly 50.0 µL (micro liters) of the PT concentrate to the flask using a gas-tight syringe and delivering the aliquot below the surface of the water.
5. Mix the solution by inverting the volumetric flask a minimum of three times.
6. The standard is now ready for preparation and analysis per your routine method(s).
7. The sample should be analyzed as soon as possible after dilution,
8. Report all results in µg/L per the reporting instructions contained in this booklet.
9. Store the diluted standard and any remaining concentrate refrigerated (at ~4°C).

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Water Supply Proficiency Testing Concentration Ranges and PTRLs

Definitions:

PTRL

NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. (REF: NELAC PT FOT Tables)

NA

Not Applicable (NA) has been applied to analytes where a PTRL is not applicable and to state specific analytes that have not had a PTRL determined by the applicable accrediting agency.

Trihalomethanes (PT-THM-WS)

NELAC Code	Analyte	Units	Concentration Range	PTRL
4395	Bromodichloromethane	µg/L	5.00 - 50.0	4.00
4400	Bromoform	µg/L	5.00 - 50.0	4.00
4575	Chlorodibromomethane	µg/L	5.00 - 50.0	4.00
4505	Chloroform	µg/L	5.00 - 50.0	4.00
Additional State Specific Analytes				
5205	Total Trihalomethanes	µg/L	20.0 - 200	NA