

Instructions for: *WS Perchlorate (Cat # PT-PERC-WS)*

STANDARD DESCRIPTION

- The WS Perchlorate standard is provided in a vial that contains approximately 21 mL of concentrate.
- The WS Perchlorate vial is unpreserved.
- Store the standard in the unopened vial refrigerated (at ~4°C).

ADDITIONAL INFORMATION

- The standard has been provided as a concentrate that must be diluted prior to analysis.
- The WS Perchlorate standard is compliant with NELAC/EPA requirements. Laboratories accredited by Massachusetts for the determination of perchlorate must use Wibby Environmental's Massachusetts Perchlorate standard (Catalog # PT-MAPER-WS).
- The standard should be run 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. Add approximately 900 mL of ASTM Type 1 water to a 1000 mL Class A volumetric flask.
3. Transfer exactly 1.00 mL of the PT standard concentrate to the flask using a Class A volumetric pipette.
4. Bring the flask to volume with ASTM Type 1 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).

CONCENTRATION RANGE and PTRL

- After preparation per these instructions, the standard will contain the analytes in the following table at a certified Concentration within the ranges shown.
- The NELAC Proficiency Testing Reporting Limit (PTRL) is provided as guidance when analyzing NELAC PT standards. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRL shown.

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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.

Perchlorate (PT-PERC-WS)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1895	Perchlorate	µg/L	4.00 - 20.0	3.20