

**Instructions for:  
WP PAHs- HPLC (cat # PT-PAH-WP)**

**STANDARD DESCRIPTION**

- The WP PAHs- HPLC standard is provided in a flame sealed ampule that contains approximately 2.1 mL of concentrate.
- The WP PAHs- HPLC standard is packaged in acetone.
- 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 in compliance with NELAC/EPA criteria. As such each lot of the WP PAHs- HPLC standards will contain a minimum of 80% of the total number of NELAC Experimental Analytes listed on the Data Reporting Sheets and in these instructions.
- Refer to “Reporting Instructions” section of this booklet for guidance on reporting results for analytes that you do not detect.
- The standard should be prepared and 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. Add approximately 990 mL of organic free deionized water to a 1000 mL class A volumetric flask.
3. Carefully open the ampule by snapping off the top at the narrow part of the neck.
4. Transfer exactly 1.0 mL of the PT standard concentrate to the flask using a gas tight syringe and delivering the aliquot below the surface of the water.
5. Bring the volumetric flask to volume with organic free deionized water.
6. Mix the solution by inverting the volumetric flask a minimum of three times.
7. The standard is now ready for preparation and analysis per your routine method(s).s).
8. The sample should be analyzed as soon as possible after dilution,
9. Report all results in µg/L per the reporting instructions contained in this booklet.
10. Store the diluted standard and any remaining concentrate refrigerated (at ~4°C).



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## Instructions for: WP PAHs- HPLC (cat # PT-PAH-WP) - Continued

### 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.

Analyte	Units	Concentration Range	PTRL
<b>NELAC Experimental Analytes</b>			
Acenaphthene	µg/L	2 - 10	0.26
Acenaphthylene	µg/L	2 - 10	0.77
Anthracene	µg/L	0.5 - 2	0.13
Benzo(a)anthracene	µg/L	0.3 - 2	0.11
Benzo(b)fluoranthene	µg/L	0.3 - 2	0.17
Benzo(k)fluoranthene	µg/L	0.3 - 2	0.1
Benzo(g,h,i)perylene	µg/L	0.3 - 2	0.12
Benzo(a)pyrene	µg/L	0.5 - 2	0.16
Chrysene	µg/L	0.3 - 2	0.16
Dibenz(a,h)anthracene	µg/L	0.5 - 2	0.1
Fluoranthene	µg/L	0.3 - 2	0.12
Fluorene	µg/L	2 - 10	0.71
Indeno(1,2,3-cd)pyrene	µg/L	0.5 - 2	0.25
Naphthalene	µg/L	2 - 10	0.27
Phenanthrene	µg/L	0.3 - 2	0.14
Pyrene	µg/L	0.3 - 2	0.13