

## Instructions for: **WS PCBs as Decachlorobiphenyl (Cat # PT-DECA-WS)**

### **STANDARD DESCRIPTION**

- The WS PCBs as Decachlorobiphenyl standard is provided in a flame sealed ampule that contains approximately 2.1 mL of concentrate.
- The WS PCBs as Decachlorobiphenyl standard is packaged in acetone.
- Store the standard in the unopened ampule refrigerated (at ~4°C).

### **ADDITIONAL INFORMATION**

- The standard has been designed and manufactured in compliance with NELAC/EPA criteria. As such, each lot of the WS PCBs as Decachlorobiphenyl standard will contain one Aroclor that is to be reported as Decachlorobiphenyl.
- Also report the identity of the Aroclor detected in the standard.
- 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).
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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## 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.

### PCBs as Decachlorobiphenyl (PT-DECA-WS)

| NELAC Code                         | Analyte                    | Units | Concentration Range | PTRL   |
|------------------------------------|----------------------------|-------|---------------------|--------|
| 9105                               | PCBs as decachlorobiphenyl | µg/L  | 0.500 - 5.00        | 0.0500 |
| 8872                               | PCB Aroclor Identification |       |                     | NA     |
| Additional State Specific Analytes |                            |       |                     |        |
| 8912                               | Aroclor 1016/1242          | µg/L  | 0.500 - 5.00        | NA     |
| 8885                               | Aroclor 1221               | µg/L  | 0.500 - 5.00        | NA     |
| 8890                               | Aroclor 1232               | µg/L  | 0.500 - 5.00        | NA     |
| 8900                               | Aroclor 1248               | µg/L  | 0.500 - 5.00        | NA     |
| 8905                               | Aroclor 1254               | µg/L  | 0.500 - 5.00        | NA     |
| 8910                               | Aroclor 1260               | µg/L  | 0.500 - 5.00        | NA     |