


**Lot Number: 7231**

**Item Number: N311-0250BPC**
**Description: 250mL WM HDPE**
**Applicable Group: 1 & 2**

This is your Certificate for Thermo Fisher Scientific Certified Environmental Sample Containers which has been prepared in accordance with Thermo Fisher Scientific Performance-Based Specifications. This product meets or exceeds analyte specifications established in the U.S. EPA "Specification and Guidance for Contaminant-Free Sample Containers" for use in Superfund and other hazardous waste programs. Representative containers have been tested at periodic intervals in house and/or by certified third-party laboratories in accordance with our quality procedures. In cases where the Method Detection Limit exceeds the Quantitation Limit, and no detectable results were obtained, the analyte is designated as "PASS".

**Group 1. Metals, Cyanide, and Fluoride**

| Analyte   | Quantitation Limit (µg/L) | Analyte   | Quantitation Limit (µg/L) | Analyte   | Quantitation Limit (µg/L) | Analyte         | Quantitation Limit (µg/L) |
|-----------|---------------------------|-----------|---------------------------|-----------|---------------------------|-----------------|---------------------------|
| Aluminum  | <100                      | Chromium  | <10                       | Mercury   | <0.2                      | Vanadium        | <10                       |
| Antimony  | <5                        | Cobalt    | <10                       | Nickel    | <20                       | Zinc            | <20                       |
| Arsenic   | <2                        | Copper    | <10                       | Potassium | <750                      | Cyanide         | <10                       |
| Barium    | <20                       | Iron      | <500                      | Selenium  | <3                        | Fluoride        | <200                      |
| Beryllium | <1                        | Lead      | <2                        | Silver    | <10                       | Nitrate/Nitrite | <100                      |
| Cadmium   | <1                        | Magnesium | <500                      | Sodium    | <500                      |                 |                           |
| Calcium   | <500                      | Manganese | <10                       | Thallium  | <10                       |                 |                           |

**Group 2. Other Water Quality Parameters**

| Analyte  | Quantitation Limit (µg/L) | Analyte          | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) |
|----------|---------------------------|------------------|---------------------------|---------|---------------------------|
| Chloride | <100                      | Paraquat (amber) | <0.4                      | Sulfate | <100                      |
|          |                           | Diquat (amber)   | <1                        | Sulfide | <30                       |
|          |                           |                  |                           | Sulfite | <1000                     |

**Group 3. Semi-Volatiles, Pesticides, PCBs**

| Analyte                       | Quantitation Limit (µg/L) | Analyte                     | Quantitation Limit (µg/L) | Analyte             | Quantitation Limit (µg/L) |
|-------------------------------|---------------------------|-----------------------------|---------------------------|---------------------|---------------------------|
| Phenol                        | <5                        | 2,4-Dinitrophenol           | <20                       | alpha-BHC           | <0.01                     |
| bis-(2-Chloroethyl)ether      | <5                        | 4-Nitrophenol               | <20                       | beta-BHC            | <0.01                     |
| 2-Chlorophenol                | <5                        | Dibenzofuran                | <5                        | delta-BHC           | <0.01                     |
| 2-Methylphenol                | <5                        | 2,4-Dinitrotoluene          | <5                        | gamma-BHC (Lindane) | <0.01                     |
| 2,2'-oxybis-(1-Chloropropane) | <5                        | Diethylphthalate            | <5                        | Heptachlor          | <0.01                     |
| 4-Methylphenol                | <5                        | 4-Chlorophenyl-phenylether  | <5                        | Aldrin              | <0.01                     |
| N-Nitroso-di-n-dipropylamine  | <5                        | Fluorene                    | <5                        | Heptachlor epoxide  | <0.01                     |
| Hexachloroethane              | <5                        | 4-Nitroaniline              | <20                       | Endosulfan I        | <0.01                     |
| Nitrobenzene                  | <5                        | 4,6-Dinitro-2-methylphenol  | <20                       | Dieldrin            | <0.02                     |
| Isophorone                    | <5                        | N-Nitrosodiphenylamine      | <5                        | 4,4'-DDE            | <0.02                     |
| 2-Nitrophenol                 | <5                        | 4-Bromophenyl-phenylether   | <5                        | Endrin              | <0.02                     |
| 2,4-Dimethylphenol            | <5                        | Hexachlorobenzene           | <5                        | Endosulfan II       | <0.02                     |
| bis-(2-Chloroethoxy)methane   | <5                        | Pentachlorophenol           | <20                       | 4,4'-DDD            | <0.02                     |
| 2,4-Dichlorophenol            | <5                        | Phenanthrene                | <5                        | Endosulfan sulfate  | <0.02                     |
| 1,2,4-Trichlorobenzene        | <5                        | Anthracene                  | <5                        | 4,4'-DDT            | <0.02                     |
| Naphthalene                   | <5                        | Di-n-butylphthalate         | <5                        | Methoxychlor        | <0.10                     |
| 4-Chloroaniline               | <5                        | Fluoranthene                | <5                        | Endrin ketone       | <0.02                     |
| Hexachlorobutadiene           | <5                        | Pyrene                      | <5                        | Endrin aldehyde     | <0.02                     |
| 4-Chloro-3-methylphenol       | <5                        | Butylbenzylphthalate        | <5                        | alpha-Chlordane     | <0.01                     |
| 2-Methylnaphthalene           | <5                        | 3,3'-Dichlorobenzidine      | <5                        | gamma-Chlordane     | <0.01                     |
| Hexachlorocyclopentadiene     | <5                        | Benz[a]anthracene           | <5                        | Toxaphene           | <1.0                      |
| 2,4,6-Trichlorophenol         | <5                        | Chrysene                    | <5                        | Aroclor-1016        | <0.20                     |
| 2,4,5-Trichlorophenol         | <20                       | Bis-(2-Ethylhexyl)phthalate | <5                        | Aroclor-1221        | <0.20                     |
| 2-Chloronaphthalene           | <5                        | Di-n-octylphthalate         | <5                        | Aroclor-1232        | <0.40                     |
| 2-Nitroaniline                | <20                       | Benzo[b]fluoranthene        | <5                        | Aroclor-1242        | <0.20                     |
| Dimethylphthalate             | <5                        | Benzo[k]fluoranthene        | <5                        | Aroclor-1248        | <0.20                     |
| Acenaphthylene                | <5                        | Benzo[a]pyrene              | <5                        | Aroclor-1254        | <0.20                     |
| 2,6-Dinitrotoluene            | <5                        | Indeno(1,2,3-cd)pyrene      | <5                        | Aroclor-1260        | <0.20                     |
| 3-Nitroaniline                | <20                       | Dibenz[a,h]anthracene       | <5                        |                     |                           |
| Acenaphthene                  | <5                        | Benzo[g,h,i]perylene        | <5                        |                     |                           |

**GROUP 4 ON NEXT PAGE**


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**Description: 250mL WM HDPE**
**Applicable Group: 1 & 2**
**Group 4. Volatile Organics**

| Analyte                  | Quantitation Limit (µg/L) | Analyte                   | Quantitation Limit ( µg/L) | Analyte                     | Quantitation Limit ( µg/L) |
|--------------------------|---------------------------|---------------------------|----------------------------|-----------------------------|----------------------------|
| Chloromethane            | <0.50                     | Bromochloromethane        | <0.50                      | Tetrachloroethene           | <0.50                      |
| Bromomethane             | <0.50                     | 1,1,1-Trichloroethane     | <0.50                      | 1,1,2,2,-Tetrachloroethane  | <0.50                      |
| Vinyl Chloride           | <0.50                     | Carbon Tetrachloride      | <0.50                      | 1,2-Dibromoethane           | <0.50                      |
| Chloroethane             | <0.50                     | Bromodichloromethane      | <0.50                      | Toluene                     | <0.50                      |
| Methylene Chloride       | <1.0                      | 1,2-Dichloropropane       | <0.50                      | Chlorobenzene               | <0.50                      |
| Acetone                  | <2.50                     | cis-1,3-Dichloropropene   | <0.50                      | Ethylbenzene                | <0.50                      |
| Carbon Disulfide         | <0.50                     | Trichloroethene           | <0.50                      | Styrene                     | <0.50                      |
| 1,1-Dichloroethene       | <0.50                     | Dibromochloromethane      | <0.50                      | Xylenes (total)             | <0.50                      |
| 1,1-Dichloroethane       | <0.50                     | 1,1,2-Trichloroethane     | <0.50                      | 1,3-Dichlorobenzene         | <0.50                      |
| cis-1,2-Dichloroethene   | <0.50                     | Benzene                   | <0.50                      | 1,4-Dichlorobenzene         | <0.50                      |
| trans-1,2-Dichloroethene | <0.50                     | trans-1,3-Dichloropropene | <0.50                      | 1,2-Dichlorobenzene         | <0.50                      |
| Chloroform               | <0.50                     | Bromoform                 | <0.50                      | 1,2-Dibromo-3-chloropropane | <0.50                      |
| 1,2-Dichloroethane       | <0.50                     | 4-Methyl-2-pentanone      | <2.50                      |                             |                            |
| 2-Butanone               | <2.50                     | 2-Hexanone                | <2.50                      |                             |                            |

In addition to the above analytes in Group 4, 20mL, 40 mL, and 60 mL vials are certified for:

| Analyte              | Quantitation Limit ( µg/L) |
|----------------------|----------------------------|
| Total Organic Carbon | <600                       |

**Group 5. O&G, TPH, DRO**

| Analyte                      | Quantitation Limit |
|------------------------------|--------------------|
| Oil & Grease                 | <5.0 mg/L          |
| Total Petroleum Hydrocarbons | <50 mg/L           |
| Diesel Range Organics        | <0.2 mg/L          |

Approved By / Date:

Levi Nott 4/28/2025

Quality Assurance