Thermo SCIENTIFIC

# PRODUCT CERTIFICATE

**Production Number: 00077349** | **Item Number: N411-0125** | **Item Description: 125ML STERILE WM HDPE** | **Group 1 is applicable**

***This is your Certificate for Thermo Scientific Certified Environmental Sample Containers product 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 by certified third-party laboratories in accordance with our quality procedures.***

## Group 1. Glass and HDPE Sample containers for use in the analysis of Metals

| Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Aluminum | <80 | Calcium (all HDPE) | <100 | Magnesium | <100 | Selenium | <2 |
| Antimony | <5 | Chromium | <10 | Manganese | <10 | Silver | <5 |
| Arsenic | <2 | Cobalt | <10 | Mercury | <0.2 | Sodium | <500 |
| Barium | <20 | Copper | <5 | Nickel | <10 | Sodium (all HDPE) | <100 |
| Beryllium | <0.5 | Iron | <50 | Potassium | <750 | Thallium | <5 |
| Cadmium | <1 | Lead | <2 | Potassium (all HDPE) | <100 | Vanadium | <10 |
| Calcium | <500 | | | | | Zinc | <10 |

**In addition to the above analytes, Thermo Scientific HDPE containers are certified for these analytes:**

| Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Chloride | <100 | Fluoride | <20 | Nitrite | <50 | Sulfate | <100 |
| Cyanide | <10 | Nitrate | <20 | Paraquat (amber only) | <0.4 | Sulfide | <30 |
| Diquat (amber only) | <1.0 | | | | | Sulfite | <1000 |

## Group 2. Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCBs

| Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit (µg/L) |
|---|---|---|---|---|---|
| Acenaphthene | <5 | Acenaphthylene | <5 | Anthracene | <5 |
| Benzo(a)anthracene | <5 | Benzo(a)pyrene | <5 | Benzo(b)fluoranthene | <5 |
| Benzo(k)Fluoranthene | <5 | Benzo(g,h,i)perylene | <5 | Benzoic Acid | <20 |
| Benzyl Alcohol | <5 | 4-Bromophenyl-phenylether | <5 | Butylbenzylphthalate | <5 |
| 4-Chloroaniline | <5 | 4-Chloro-3-methylphenol | <5 | bis-(2-Chloroethoxy)methane | <5 |
| bis-(2-Chloroethyl)ether | <5 | bis-(2-Chloroisopropyl)ether | <5 | 2-Chloronaphthalene | <5 |
| 2-Chlorophenol | <5 | 4-Chlorophenyl-phenylether | <5 | Chrysene | <5 |
| Di-n-butylphthalate | <5 | Di-n-octylphthalate | <5 | Dibenzo(a,h)anthracene | <5 |
| Dibenzofuran | <5 | 1,2-Dichlorobenzene | <5 | 1,4-Dichlorobenzene | <5 |
| 1,3-Dichlorobenzene | <5 | 3,3'-Dichlorobenzidine | <5 | 2,4-Dichlorophenol | <5 |
| Diethylphthalate | <5 | Dimethylphthalate | <5 | 2,4-Dinitrotoluene | <5 |
| 4,6-Dinitro-2-methylphenol | <20 | 2,4-Dinitrophenol | <20 | Fluoranthene | <5 |
| 2,6-Dinitrotoluene | <5 | bis-(2-Ethylhexyl)phthalate | <5 | Hexachlorobutadiene | <5 |
| Fluorene | <5 | Hexachlorobenzene | <5 | Indeno(1,2,3-cd)pyrene | <5 |
| Hexachlorocyclopentadiene | <5 | Hexachloroethane | <5 | 2-Methylphenol | <5 |
| Isophorone | <5 | 2-Methylnaphthalene | <5 | 3-Nitroaniline | <20 |
| 4-Methylphenol | <5 | 2-Nitroaniline | <20 | N-Nitrosodimethylamine | <5 |
| 4-Nitroaniline | <20 | N-Nitroso-di-n-propylamine | <5 | Nitrobenzene | <5 |
| N-Nitrosodiphenylamine | <5 | Naphthlene | <5 | Pentachlorophenol | <20 |
| 2-Nitrophenol | <5 | 4-Nitrophenol | <20 | Pyrene | <5 |
| Phenanthrene | <5 | Phenol | <5 | 2,4,6-Trichlorophenol | <5 |
| 1,2,4-Trichlorobenzene | <5 | 2,4,5-Trichlorophenol | <20 | Aldrin | <0.01 |
| Azobenzene | <5 | Carbazole | <5 | Alpha-BHC | <0.01 |
| 4,4-DDD | <0.02 | Endosulfan II | <0.02 | Beta-BHC | <0.01 |
| 4,4-DDE | <0.02 | Endosulfan Sulfate | <0.02 | Delta-BHC | <0.01 |
| 4,4-DDT | <0.02 | Endrin | <0.02 | Gamma-BHC | <0.01 |
| Dieldrin | <0.02 | Endrin Aldehyde | <0.02 | Heptachlor Epoxide | <0.01 |
| Endosulfan I | <0.01 | Heptachlor | <0.01 | Alpha-Chlordane | <0.01 |
| Methoxychlor | <0.10 | Endrin Ketone | <0.02 | Aroclor-1016 | <0.20 |
| Gamma-Chlordane | <0.01 | Toxaphene | <0.30 | Aroclor-1242 | <0.20 |
| Aroclor-1221 | <0.20 | Aroclor-1232 | <0.20 | Aroclor-1260 | <0.20 |
| Aroclor-1248 | <0.20 | Aroclor-1254 | <0.20 | TPH by EPA 1664 | <50 mg/Kg |
| Aroclor-1262 | <0.20 | Aroclor-1268 | <0.20 | | |

## Group 3. Glass Sample Containers for use in the analysis of Volatiles

| Analyte | Quantitation Limit (µg/L) | Analyte | Quantitation Limit ( µg/L) | Analyte | Quantitation Limit ( µg/L) |
|---|---|---|---|---|---|
| Acetone | <5 | 1,3-Dichloropropane | <1 | Benzene | <1 |
| 2,2-Dichloropropane | <1 | Bromobenzene | <1 | 1,2-Dichloropropane | <1 |
| Bromodichloromethane | <1 | trans-1,3-Dichloropropene | <1 | Bromoform | <1 |
| cis-1,3-Dichloropropene | <1 | Bromomethane | <1 | 1,1-Dichloropropene | <1 |
| 2-Butanone | <5 | Ethylbenzene | <1 | tert-Butylbenzene | <1 |
| Hexachlorobutadiene | <1 | sec-Butylbenzene | <1 | 2-Hexanone | <5 |
| n-Butylbenzene | <1 | Isopropylbenzene | <1 | Carbon Disulfide | <1 |
| p-Isopropyltoluene | <1 | Carbon Tetrachloride | <1 | 4-Methyl-2-pentanone | <5 |
| Chloromethane | <1 | Methylene Chloride | <2 | Chloroethane | <1 |
| 1,1,2,2-Tetrachloroethane | <1 | Chloroform | <1 | n-Propylbenzene | <1 |
| Dibromochloromethane | <1 | Styrene | <1 | 2 & 4 Chlorotoluene | <1 |
| 1,2,3-Trichloropropane | <1 | 1,2-Dibromo-3-chloropropane | <1 | Tetrachloroethene | <1 |
| 1,4-Dichlorobenzene | <1 | Toluene | <1 | 1,2-Dibromoethane (EDB) | <1 |
| 1,1,1-Trichloroethane | <1 | Dibromomethane | <1 | 1,2,4-Trichlorobenzene | <1 |
| Dichlorodifluoromethane | <1 | 1,1,2-Trichloroethane | <1 | 1,3-Dichlorobenzene | <1 |
| 1,2,3-Trichloropropane | <1 | 1,2-Dichlorobenzene | <1 | Trichloroethene | <1 |
| trans-1,2-Dichloroethene | <1 | Trichlorofluoromethane | <1 | 1,2-Dichloroethene | <1 |
| Vinyl Acetate | <5 | 1,1-Dichloroethane | <1 | Bromochloromethane | <1 |
| Xylenes (total) | <1 | 1,3,5-Trimethylbenzene | <1 | | |
| Vinyl Chloride | <1 | 1,1-Dichloroethene | <1 | | |
| | | 1,2,4-Trimethylbenzene | <1 | | |
| | | cis-1,2-Dichloroethene | <1 | | |

**In addition to the above analytes in Group 3, 40 mL and 60 mL vials are certified for:**

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

Please keep this certificate for your records and to facilitate any necessary correspondence. If additional information is required, contact our Technical Service Department at (800) 550-4964. Thermo Scientific Environmental Sample Containers are processed in our ISO 9001 manufacturing facilities in the US. All of our processes from design to development to manufacturing meet or exceed the requirements for quality as set forth by the International Standards Organization.

Robby Ryans
QA Department
90037ST

THIRD PARTY Thermo Scientific I-Chem CERTIFIED AUDITED™

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*This is your*

# CERTIFICATE OF STERILITY

This is your Certificate of Sterility for Thermo Scientific Certified Environmental Sample Containers 400 Series Sterile Nalgene® HDPE product which has been gamma irradiated and dosimetrically released based upon U.S. Association of the Advancement of Medical Instrumentation (AAMI) recommended practices. These sterile bottles are guaranteed sterile for two years.

These Thermo Scientific Nalgene Wide Mouth HDPE Bottles with HDPE Closures:

- were dosimetrically released per AAMI guidelines.
- were molded from resins which are usage sanctioned by the U.S. Food and Drug Administration (FDA) under Title 21, Paragraph 177.1520 of the Code of Federal Regulations.
- were produced and inspected in accordance and in compliance with established manufacturing procedures and quality acceptance requirements.
- were determined to be non-pyrogenic as defined by "Guideline from the Validation of the Limulus Amebocyte Lysate Test" as defined by the FDA(12/87) as an end product endotoxin test for human and animal parenteral drugs, biological products and medical devices; and they meet the latest volume of the United States Pharmacopoeia, 1990 Bacterial Endotoxin Test criteria.
- were tested and shown to be non-cytotoxic as part of a Thermo Scientific Nalgene initial product test approval protocol, using either mouse fibroblast L929 cells or the more sensitive human diploid lung cell line the WI-38 or MRC-5.
- For a Certificate of Processing showing the date processed and the delivered dose, please contact customer service at ichem.cservice@thermofisher.com or 800-550-4964 with the stock code and lot number.

Please keep this certificate for your records and to facilitate any necessary correspondence. If additional information is required, contact our Technical Service Department at (800) 550-4964. Thermo Scientific Environmental Sample Containers are processed in our ISO 9001 manufacturing facilities in the US. All of our processes from design to development to manufacturing meet or exceed the requirements for quality as set forth by the International Standards Organization.

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