



PRODUCTION NUMBER: 1249166



Item Number: N301-0500

Item Description: BOTTLE AMBER HDPE WM NALGENE®

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/LDPE Sample containers for use in the analysis of Metals

Analyte	Quantitation Limit (ug/L)	Analyte	Quantitation Limit (ug/L)	Analyte	Quantitation Limit (ug/L)	Analyte	Quantitation Limit (ug/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, containers are certified for these analytes:

Analyte	Quantitation Limit (ug/L)	Analyte	Quantitation Limit (ug/L)	Analyte	Quantitation Limit (ug/L)	Analyte	Quantitation Limit (ug/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

Compound	Quantitation Limit (ug/L)	Compound	Quantitation Limit (ug/L)	Compound	Quantitation Limit (ug/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	Naphthalene	<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		
Aroclor-1262	<0.20	Aroclor-1268	<0.20		

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

Compound	Quantitation Limit (ug/L)	Compound	Quantitation Limit (ug/L)	Compound	Quantitation Limit (ug/L)
Acetone	<5	1, 3-Dichloropropane	<1	Benzene	<1
2, 2-Dichloropropane	<1	Bromobenzene	<1	1, 2-Dichloropropane	<1
Bromodichloromethane	<1	trans-1, 3-Dichloropropane	<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
Chlorobenzene	<1	Methylene Chloride	<2	Chloroethane	<1
Naphthalene	<1	Chloroform	<1	n-Propylbenzene	<1
Chloromethane	<1	Styrene	<1	2 & 4 Chlorotoluene	<1
1, 1, 2, 2-Tetrachloroethane	<1	1, 2-Dibromo-3-chloropropane	<1	Tetrachloroethene	<1
Dibromochloromethane	<1	Toluene	<1	1, 2-Dibromoethane (EDB)	<1
1, 2, 3-Trichlorobenzene	<1	Dibromomethane	<1	1, 2, 4-Trichlorobenzene	<1
1, 4-Dichlorobenzene	<1	1, 1, 2-Trichloroethane	<1	1, 3-Dichlorobenzene	<1
1, 1, 1-Trichloroethane	<1	1, 2-Dichlorobenzene	<1	Trichloroethene	<1
Dichlorodifluoromethane	<1	Trichlorofluoromethane	<1	1, 2-Dichloroethene	<1
1, 2, 3-Trichloropropane	<1	1, 1-Dichloroethane	<1	Bromochloromethane	<1
trans-1, 2-Dichloroethene	<1	1, 3, 5-Trimethylbenzene	<1		
Vinyl Acetate	<5	1, 1, -Dichloroethene	<1		
Xylenes (total)	<1	1, 2, 4-Trimethylbenzene	<1		
Vinyl Chloride	<1	cis-1, 2-Dichloroethene	<1		

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

Compound	Quantitation Limit (ug/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.

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