

Watercare Laboratory Services

Bottle Guide (Liquids)



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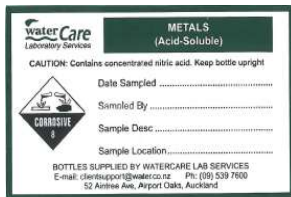
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Metals

M1. 100mL Plastic - Nitric Acid Preserved (Acid-Soluble)

Used for: Acid-soluble metals
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly
Preservative: Nitric acid
Safety: Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid preservative
Bottle code: MET-AC-SOL_0100

Label:



M2. 100mL Plastic - Nitric Acid Preserved (Client-Filtered)

Used for: Soluble metals (where the sample has been filtered in the field)
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly. Note: if using our filters, refer to M8.
Preservative: Nitric acid
Safety: Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid
Bottle code: MET-MF-CF_0100

Label:



M3. 100mL Plastic - Ammonium Buffer pH 10 Preserved (Cr6+)

Used for: Chromium 6+
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly
Preservative: Ammonium buffer pH 10
Safety: Sample bottle contains ammonium buffer. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid
Bottle code: CR-HEX_0100

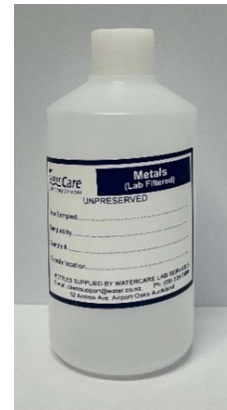
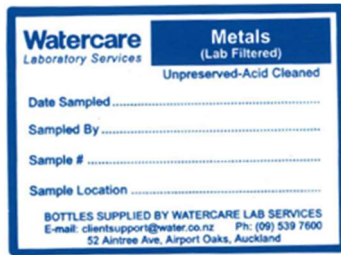
Label:



M4. 250mL Plastic – Nitric Acid Treated (Lab-Filtered Metals)

Used for: Soluble metals
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace
Safety: Sample bottle washed and treated with nitric acid
Bottle code: MET-DI-T_0250

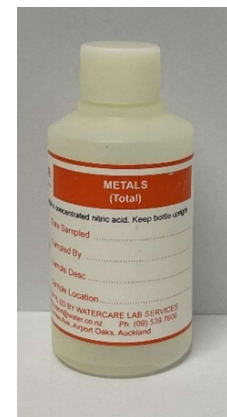
Label:



M5. 100mL Plastic - Nitric Acid Preserved (Total Metals)

Used for: Total metals (e.g. lead, copper, nickel, total hardness)
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly
Preservative: Nitric acid
Safety: Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid
Bottle code: MET-TO-T_0100

Label:



M6. 100mL Plastic - Nitric Acid Preserved (Ultra Trace Total Metals)

Used for: Ultra trace metals
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly. Keep bottle double bagged
Preservative: Nitric acid
Safety: Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid. Keep double bagged on transport back to lab
Bottle code: MET-TO-U_0100

Label:



M7. 100mL Plastic – Nitric Acid Preserved (Ultra Trace Filtered Metals)

Used for: Ultra trace metals
Sampling info: Do not rinse prior to filling. Use a field filtration kit (M8) to filter the sample directly into the bottle to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly. Keep bottle double bagged
Preservative: Nitric acid
Safety: Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid. Keep double bagged on transport back to lab
Bottle code: MET-DI-U_0100

Label:



M8. Field/Ultra Trace Filtration Kit

Used for: Filtering sample into ultra-trace metals container or field filtration
Sampling info: Don provided gloves from the bag. Pull plunger out of the syringe and attach the filter to the end of the syringe. Fill the syringe with sample up to the 60mL mark and place the plunger back into the syringe. Push down on the plunger over a sink or the environment until a few drops appear at the end of the filter. Push out ~1mL into the sink/environment before filtering the rest into the ultra-trace or field filtered container



General Chemistry

G1. 100mL Plastic – Sulphuric Acid Preserved

Used for: COD, Total and Reactive Phosphorus, Total Kjeldahl Nitrogen, Ammonia, Total Nitrogen

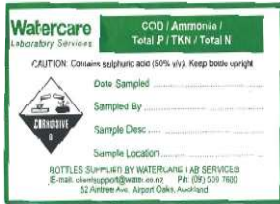
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the acid preservative). Ensure the lid is screwed down firmly

Preservative: Sulphuric acid

Safety: Sample bottle contains concentrated acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid preservative

Bottle code: H2SO4_0100

Label:



G2. 250mL Plastic – Sodium Hydroxide Preserved

Used for: Cyanide

Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly

Preservative: Sodium hydroxide

Safety: Sample bottle contains concentrated base. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains acid preservative

Bottle code: NaOH_0250

Label:



G3. 300mL Glass Stopper Jar

Used for: Dissolved oxygen

Sampling info: Fill glass jar up slowly, minimising aeration, halfway up the neck. Tap the bottle if necessary to remove any air bubbles. Add the contents of the manganese solution (reagent #1) to the bottle followed by the contents of the alkali solution (reagent #2). Insert the stopper and ensure all air is evacuated from the bottle. Mix by **INVERSION** a few times. Reagent #2 is highly alkaline and corrosive to the skin. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Handle both reagents with great care

Safety:

Transport info: Sample must be received and tested at the lab on the same day

Bottle code: DO_0300

Label:



G4. 100mL to 2L Plastic

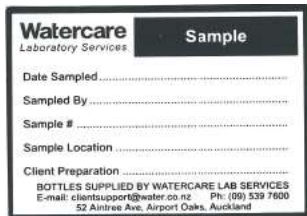
Used for: pH, turbidity, colour, anions, salinity, UV, ultra-trace suspended solids and more

Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace

Transport info: Samples for general testing often are required to arrive at the lab within a certain timeframe for the testing to be viable. Enquire with the laboratory team to ensure you adhere to the method's recommend holding time

Bottle code: GENERAL_0100 to GENERAL_2000 SUSPSOL_2000

Label:



G5. 500mL and 1L Black Plastic

Used for: Water/solid samples sensitive to light (e.g. Chlorophyll)

Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace

Bottle code: GENERAL-O_0500 to GENERAL-O_1000

Volume guide: 500mL is to be used for periphyton samples, all other water samples require the 1L

Label:



G6. 100mL Plastic – Ethylenediamine Preserved

Used for: Oxyhalides (Bromide, Bromate, Chlorite, Chlorate, Perchlorate)

Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly

Preservative: Ethylenediamine

Safety: Sample bottle contains ethylenediamine preservative. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative

Bottle code: ETDIAM_0100



Label:



G7. 100mL Plastic – Zinc Acetate and Sodium Hydroxide Preserved

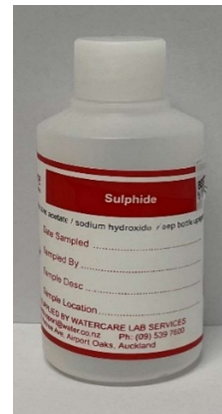
Used for: Sulphide

Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly

Preservative: Zinc acetate and sodium hydroxide

Safety: Sample bottle contains concentrated base. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative

Bottle code: ZNAC_OH_TO_0100



Label:



G8. 100mL Plastic – Disodium Ethylene Diamine Tetra Acetic Acid Preserved

Used for: Sulphite

Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly

Preservative: Disodium ethylene diamine tetra acetic acid (Na₂EDTA)

Safety: Sample bottle contains disodium ethylene diamine tetra acetic acid. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative

Bottle code: EDTA_0100



Label:



G9. 100mL Plastic – Cyanogen Chloride

Used for: Cyanogen Chloride
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up without leaving any headspace. This can be achieved by also filling the lid with sample and quickly screwing it down on the full bottle.

Bottle code: CNCL_0100

Label:



G10. 1L Sterile Glass – x2 (Taste and Odour – Sensory Panel)

Used for: Taste and Odour by Sensory evaluation
Sampling info: Rinse and fill 2x 1L sterile glass bottles, leaving minimal headspace. To be analysed within 24 hours of sample. Bottle water product can be delivered in respective packaging and analysed anytime

Bottle code: STER_1000

Label:



G11. 100mL Plastic – Zinc Acetate and Sodium Hydroxide Preserved + Filtration Kit

Used for: Dissolved Sulphide
Sampling info: Do not rinse prior to filling. Filter sample using provided filter kit into preserved bottle. Fill the bottle with sample water to the neck of the bottle (do not overfill as this will spill the preservative). Ensure the lid is screwed down firmly
Preservative: Zinc acetate and sodium hydroxide
Safety: Sample bottle contains concentrated base. Ensure bottles are kept upright during storage and transportation with their lids securely closed. When sampling, wear appropriate personal protective equipment such as gloves/safety glasses. Do **NOT** overfill or rinse as bottle contains preservative

Bottle code: ZNAC_OH_DI_0100

Label:



G12. 1L and 2L Plastic – BOD and Suspended Solids

Used for: BOD (Dissolved, total, carbonaceous), suspended solids
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace
Transport info: Samples for BOD and SS are required to arrive at the lab within a certain timeframe for the testing to be viable. Enquire with the laboratory team to ensure you adhere to the method's recommend holding time.
Bottle code: GEN-BOD_SS_1000 and GEN-BOD_SS_2000
Volume guide: Each BOD test requires 500mL (e.g. Dissolved and Total BOD 1L), 500mL SS for wastewater and 1L for environmental water.

Label:

Watercare Laboratory Services **BOD / SUSPENDED SOLIDS**

Date Sampled

Sampled By

Sample Desc

Sample Location

BOTTLES SUPPLIED BY WATERCARE LAB SERVICES
 Email: clientsupport@water.co.nz Ph: (09) 539 7600
 52 Aintree Ave, Airport Oaks, Auckland.



Microbiology

MI1. 400mL and 1L Sterile Plastic – Iodine Preserved

Used for: Algae
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the top of the bottle. Ensure the lid is screwed down firmly
Preservative: Iodine
Bottle code: ALG-LU-I_0400 ALG-LU-I_1000
Label:



MI2. 250mL Sterile Plastic – Sodium Thiosulphate Preserved (Bacto)

Used for: Potable water microbiology (e.g. E. coli, total coliforms, HPC) on chlorinated water
Sampling info: Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill to just below the neck of the bottle, leaving some head space at the top (do not overfill). Ensure the lid is correctly seated on the bottle and screw down firmly. NB: these bottles contain a small volume of liquid sodium thiosulphate to remove chlorine
Transport info: Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C. For drinking water, please refer to SFSA36.
Bottle code: STER-NATH_0250

Label:



MI3. 500mL Sterile Plastic – Sodium Thiosulphate Preserved (Pools)

Used for: Swimming pool sampling
Sampling info: Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill to just below the neck of the bottle, leaving some head space at the top (do not overfill). Ensure the lid is correctly seated on the bottle and screw down firmly. NB: These bottles contain a small volume of liquid sodium thiosulphate to remove chlorine
Transport info: Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C
Bottle code: STER-NATH_0500



Label:

MI4. 250mL to 1L Sterile Glass – (Bacto)

Used for: Microbiology on raw or unchlorinated water
Sampling info: Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill up to the neck of the bottle leaving some head space at the top (do not overfill). NB: these bottles are also date stamped as their sterility expires (3 months), so check this before sampling
Transport info: Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C
Bottle code: STER_0250 STER_0500 STER_1000



Label:

MI5. 120mL to 1L Sterile Plastic

Used for: Non-chlorinated potable water microbiology (e.g. E. coli, total coliforms, HPC, phage)
Sampling info: Do **NOT** rinse prior to filling. Ensure aseptic technique is used and fill to just below the neck of the bottle, leaving some head space at the top (do not overfill). Ensure the lid is correctly seated on the bottle and screw down firmly
Transport info: Sample must be received at the lab within 24 hours of sample collection. Keep samples below 10°C
Bottle code: STER_0120 STER_250 PHAGE_0250 STER_0400 STER_1000



Label:

MI6. 5L Opaque Plastic – x3

Used for: Giardia and Cryptosporidium
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace. To recap; remove black ring stopper and skirt to ensure the lid can be secured firmly (otherwise sample will leak). Keep samples below 20°C

Bottle code: GIARDIA-L_5000

Label:

	GIARDIA & Cryptosporidium
Date Sampled:	Date Sampled:
Time Sampled:	Time Sampled:
Sample ID:	Sample ID:
Sample location:	Sample location:

BOTTLES SUPPLIED BY WATERCARE LAB SERVICES
 E-mail: clientsupport@water.co.nz Ph: (09) 539 7500
 52 Airfree Ave, Airport Oaks, Auckland



MI7. 10L Opaque Plastic – x2

Used for: Helminths
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace. To recap; remove black ring stopper and skirt to ensure the lid can be secured firmly (otherwise sample will leak).

Bottle code: HELMINTH_10000

Label:

Watercare Laboratory Services	Sample
Date Sampled	Date Sampled
Sampled By	Sampled By
Sample #	Sample #
Sample Location	Sample Location
Client Preparation	Client Preparation

BOTTLES SUPPLIED BY WATERCARE LAB SERVICES
 E-mail: clientsupport@water.co.nz Ph: (09) 539 7500
 52 Airfree Ave, Airport Oaks, Auckland



MI8. Giardia Filtration Kit

Used for: Giardia and Cryptosporidium — clean water sites only
Sampling info: Filter, tubing, gauge, and field paperwork will arrive in a chilly bin. Further instructions on how to sample are also supplied in the chilly bin. Ensure field paperwork is returned with sample

Transport info: Return all equipment with sample including filter and field paperwork. Ensure sample is kept below 20°C

Bottle code: CENT_220



MI9. 10L Sterile Opaque Plastic – x2

Used for: Virus
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace. To recap; remove black ring stopper and skirt to ensure the lid can be secured firmly (otherwise sample will leak). Virus containers are reusable if sterilised. Check for autoclaved tape on lid before use.

Bottle code: VIRUS-L_10000

Label:

Watercare Laboratory Services	Sample
Date Sampled	
Sampled By	
Sample #	
Sample Location	
Client Preparation	
BOTTLES SUPPLIED BY WATERCARE LAB SERVICES	
E-mail: clientsupport@water.co.nz Ph: (09) 539 7600	
52 Aintree Ave, Airport Oaks, Auckland	



Organic Chemistry

01. 100mL Amber Glass

Used for: Cyanotoxins

Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the top ensuring all air is evacuated from the sample. This is best achieved by filling the bottle as full as possible and placing on a flat surface. Fill the lid with sample water and pour onto the bottle until a visible meniscus has formed on the top of the bottle. Hold the lid securely and quickly screw it down onto the bottle. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible

Transport info: Samples for Cyanotoxins should be chilled when transporting.

Bottle code: ORG-L_0100

Label:



02. 250mL Amber Glass

Used for: Total Organic Carbon (TOC), Dissolved Organic Carbon (DOC), Non-Purgeable Organic Carbon (NPOC), Formaldehyde

Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the top ensuring all air is evacuated from the sample. This is best achieved by filling the bottle as full as possible and placing on a flat surface. Fill the lid with sample water and pour onto the bottle until a visible meniscus has formed on the top of the bottle. Hold the lid securely and quickly screw it down onto the bottle. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible

Transport info: Samples should be chilled when transporting.

Bottle code: O-UNP-AG_0250

Label:



03. 1L Amber Glass

Used for: Semi Volatile Organic Compounds (SVOC), Polyaromatic Hydrocarbons (PAH), Phenols, Organochlorine Pesticides (OCP), Organonitrogen and Organophosphorus pesticides (ONOP)

Sampling info: Rinse the bottle with a small amount of sample water (unless the bottle is preserved with sodium thiosulphate) and then fill to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the top of the bottle (NB: for this size bottle it is best to place it on a flat surface and fill the last bit by pouring water from the lid). Hold the lid securely and quickly screw it down. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible. Ensure the lid is screwed down firmly.

Transport info: Samples should be chilled when transporting.

Preservation: Sodium thiosulphate for treated water (only for the NATHIO_1000 test)

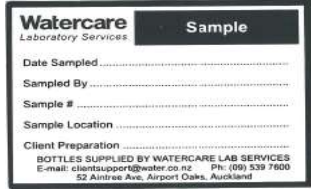
Bottle code: NATHIO_1000 ORG-L_1000 ORG-L_1000_ONOP ORG-L_1000_SVOC

Label:



O4. 1L Glass

Used for: Oil and grease, Total Petroleum Hydrocarbons (TPH)
Sampling info: Rinse sample jar with a small amount of the water to be sampled and then fill up to the top of the bottle.
Transport info: Samples for Oil and grease and TPH are recommended to be chilled when transporting.
Bottle code: HC_1000 O-UNP-G_1000
Label:



O5. 100mL Amber Glass – Ammonium Chloride Preserved

Use for: Disinfection by-products (DHA, HAA), Oxyhalides (Trace level), Acrylamide
Sampling info: Do not rinse prior to filling. Fill the bottle with sample water to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the top of the bottle. Hold the lid securely and quickly screw it down. Invert the bottle to check for air bubbles. Repeat if necessary, until there is no air visible. Ensure the lid is screwed down firmly.
Transport info: Samples should be chilled when transporting.
Preservative: Ammonium chloride
Bottle code: O-NH4CL-AG_0100
Label:



O6. 40mL Amber Glass Vials – Ascorbic Acid – x2

Used for: Volatile organics (VOC, THMs, BTEX),
Sampling info: As these vials contain preservative, do not rinse prior to filling. Fill the 2 vials with sample water to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the top of the vial. Ensure the septum in the lid is intact before filling with sample water and quickly screwing it down on the vial. Invert the vial to check for air bubbles. Repeat, if necessary, until there is no air visible. Ensure the lid is screwed down firmly.
Transport info: Samples for Volatile organics must be chilled when transporting.
Preservative: Ascorbic acid
Bottle code: O-ASC-AV_0040
Label:



07. 40mL Amber Glass Vial – x2

Used for: Epichlorohydrin, Taste & Odour (T&O)
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and ensure the septum in the lid is intact before filling with sample water and quickly screwing it down on the vial. Invert the vial to check for air bubbles. Repeat, if necessary, until there is no air visible. Ensure the lid is screwed down firmly.

Transport info: Samples for Epichlorohydrin and T&O must be chilled when transporting.
Bottle code: O-UNP-AV_0040

Label:



08. 40mL Glass Vial – x2

Used for: Ethylene Glycol, Acrylonitrile & Acrylates, Alcohol Profile
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and ensure the septum in the lid is intact before filling with sample water and quickly screwing it down on the vial. Invert the vial to check for air bubbles. Repeat, if necessary, until there is no air visible. Ensure the lid is screwed down firmly.

Transport info: Samples for Ethylene glycol, Acrylonitrile & Acrylates, Alcohol must be chilled when transporting.

Bottle code: O-UNP-V_0040

Label:



09. 100mL Plastic

Used for: 1080 & PFAS
Sampling info: Rinse sample bottle with a small amount of the water to be sampled and then fill up to the neck of the bottle leaving a small headspace.

Transport info: Samples for 1080 must be chilled when transporting.
Bottle code: O-UNP-P_0100

Label:



O10. 100mL Plastic – Sodium Thiosulphate Preserved

- Used for:** Paraquat & Diquat, Glyphosate & AMPA
- Sampling info:** As these bottles contain preservative, do not rinse prior to filling. Fill the bottle with sample water to the top ensuring all air is evacuated from the sample. To achieve this fill with sample water until a visible meniscus has formed on the neck of the bottle. Quickly screw it down on the on the bottle and invert the vial to check for air bubbles. Repeat, if necessary, until there is no air visible. Ensure the lid is screwed down firmly.
- Transport info:** Samples for Paraquat & Diquat, Glyphosate & AMPA should be chilled when transporting.
- Preservative:** Sodium thiosulphate
- Bottle code:** O-NATH-P_0100
- Label:**

