

Sampling Information Guide

Important Information

When a combination of Chem, Micro, GMO or Allergen testing is required please send **separate** samples for each department with a minimum of the specified quantity. If there are any other tests not listed please contact Client Services for more information.

GENERAL AND INSTRUMENTAL CHEMISTRY	MASS g	VOL mL	OTHER
Multiple tests	500	500	
NIP (including with Fibre)	500	500	
Please note that products containing Polydextrose, Inulin, and Resistant Starch or other novel fibres must be specified as different methods apply. Polyols and other low joule bulking agents must be specified to ensure correct Energy and Carbohydrate results			
Vitamins in solid/liquid	500	500	200 mL Vit D
Minerals solid/liquid	100	250	
Compositional Chemistry <i>solid/liquid (eg Moisture, Ash, Fat or Protein)</i>	100	250	
Peroxide value	100	100	Light protected container
Ethanol	100	100	Sealed unopened container
Mycotoxins	200	200	
Sulphur Dioxide (SO ₂ M02)	100	100	
Preservatives <i>solid/liquid</i>	100	100	
Antioxidants (<i>fats & oils</i>)	20		
Antioxidants (<i>dry foods</i>)	100		
Fat Profile (<i>Sat, Mono, Poly, Trans, Omega</i>) <i>solid/liquid</i>	100	200	
Dietary Fibre <i>solid/liquid</i>	100	200	
Cholesterol <i>solid/liquid</i>	50	50	
Pesticides (fruit and vegetables)	1kg or 10 items		
Pesticides (other)	250	250	

Dietary Fibre

Products containing polydextrose, inulin, resistant and modified starch or other novel fibres must be specified as different methods apply:

- DIET02 – no fibre additives
- DIET02, OLIG04, MISC01 – added Inulin only
- DIET02, RMDX01, DIET04 – Polydextrose, Resistant Maltodextrin/Modified Starch
- Other fibre additives – Please contact MNAQ for advice

If product contains sugar alcohols (e.g. glycerol, sorbitol, maltitol) please specify the type and amount present, as this may affect dietary fibre and energy determinations

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GENERAL MICROBIOLOGY PER SAMPLE BASED ON STANDARD SENSITIVITIES	MASS g	VOL mL	OTHER
SPC, Coliforms, E.coli, Yeast and Moulds <i>solid/liquid</i>	100	500	

PATHOGENS	MASS g	VOL mL	OTHER
Listeria/25g, Salmonella/25g, Staph/g	100	500	
Spore formers <i>Aerobic/Anaerobic Mesophilic/Thermophilic</i>	100	500	
E.sakazakii/Cronobacter	500	500	
Potable Water (<i>SPC, Coli, E.coli</i>)		500	

Other requirements may govern test sensitivities based on export/customer or regulatory requirements for example E.sakazakii/1500g, E.coli 0157/375g, Listeria per 125/250/375g, Salmonella 125/375/750/1500g. Please ensure that the minimum sample quantity is twice that of the sensitivity.

ALLERGENS	MASS g	VOL mL	OTHER
One Allergen or All	200	200	
Swabs	1 Allergen per swab		

GMO	MASS g	VOL mL	OTHER
Products	200		
Liquid		200	
Seeds	1000		

Water Testing

Types of containers and volumes for Water Collection – Microbiology

It is a NATA requirement that the correct type of bottle/container is used for the collection of water for both chemical and microbiological testing. The type of bottle/container in which water is collected can have an effect on the quality of the results.

Australian Standard methods require that water for Microbiological analysis be collected in the following container types:

TYPE OF WATER	VOL mL	ANALYSIS	BOTTLE / CONTAINER
Waters Containing Chlorine: Potable water (drinking water, tap water) pool & Spa waters, cooling tower waters	500	Microbiological	500mL sterile bottle containing sodium thiosulphate
Waters not likely to contain chlorine: Tank water (eg, from a rainwater tank), storm water, drains, ground water, beach water, creek water, river water, effluent, wastewater	500	Microbiological	500mL sterile bottle – does not need to contain sodium thiosulphate

Water testing must commence within 24 hrs of sampling for all microbiology tests.

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Recommended volumes and holding times for the chemistry tests performed at MNAQ

As per NATA requirement, each category below requires a **SEPARATE** bottle. If multiple tests are required from one category add sample volumes together for a total volume

Please ensure sampling time and date is listed on the sample label. If samples are received outside holding time testing will not commence until client authorization has been obtained.

Category 1 – No preservation required

TEST	MNAQ TEST CODE	CONTAINER	MIN. SAMPLE SIZE mL	PRESERVATION METHOD	HOLDING TIME (max. time from collection until analysis)
Chlorine	CHLO03/04/05	Plastic or glass	50	Test immediately	15 mins
Oxygen, dissolved	DOXY01	Glass/BOD bottle	300	Test immediately	15 mins
Iodine	ICPM05	Plastic or glass	100	Test immediately	15 mins
Nitrate (N)	NITR05	Plastic or glass	100	Test immediately	2 days
Nitrite (N)	NITR05	Plastic or glass	100	Test immediately	2 days
pH	PHWA01	Plastic or glass	100	Test immediately	15 mins
Salinity	SALI01	Glass only	250	Test immediately	28 days
Turbidity	TURB05	Plastic or glass	100	Test immediately	2 days
Alkalinity	ALKA01	Plastic or glass	200	Refrigerate	14 days
Biological Oxygen Demand (BOD)	BODW01	Plastic or glass	1000	Refrigerate	2 days
Colour	COLO01	Plastic or glass	500	Refrigerate	2 days
Conductivity	COND01	Plastic or glass	500	Refrigerate	28 days
Chloride	SALT04	Plastic or glass	200	Refrigerate	28 days
Fluoride	FLUO01	Plastic only	200	Refrigerate	28 days
Silica	SILI01	Plastic only	200	Refrigerate	28 days
Sulphate	SULP01/02	Plastic or glass	300	Refrigerate	28 days
Total dissolved solids	SOLD01	Plastic or glass	200	Refrigerate	7 days
Suspended solids	SOLS01	Plastic or glass	300	Refrigerate	7 days
Total solids	SOLT01	Plastic or glass	200	Refrigerate	7 days

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Category 2 – Preservation with H₂SO₄

TEST	MNAQ TEST CODE	CONTAINER	MIN. SAMPLE SIZE mL	PRESERVATION METHOD	HOLDING TIME (max. time from collection until analysis)
Ammonia (N)	NITA01	Plastic or glass	500	Add H ₂ SO ₄ to pH < 2	1 day. If preserved 28 days
Chemical Oxygen demand (COD)	CODW01	Plastic or glass	100	Add H ₂ SO ₄ to pH 2	28 days
Nitrogen Total (Kjeldahl)	NITK01	Plastic or glass	500	Add H ₂ SO ₄ to pH < 2	1 day. If preserved 28 days
Oil and Grease	OILG01	Glass only	1000	Add H ₂ SO ₄ to pH < 2	28 days

Category 3 – Preservation with HNO₃

TEST	MNAQ TEST CODE	CONTAINER	MIN. SAMPLE SIZE mL	PRESERVATION METHOD	HOLDING TIME (max. time from collection until analysis)
Hardness	HARD01	Plastic or glass	100	Add HNO ₃ to pH < 2	7 days, If preserved 6 months
Mercury	ICPM03	Plastic or glass	100	Add HNO ₃ to pH < 2	7 days. If preserved 28 days
Metals - total	MICP02, ICPM01	Plastic or glass	100	Add HNO ₃ to pH < 2	7 days, If preserved 6 months

Category 4 – Preservation with Zinc Acetate

TEST	MNAQ TEST CODE	CONTAINER	MIN. SAMPLE SIZE mL	PRESERVATION METHOD	HOLDING TIME (max. time from collection until analysis)
Sulphide (total)	SULD01	Plastic or glass	100	Add Zinc acetate	7 days

Any queries, please contact an Authorised Analysts for Council samples and Client Experience team for other samples.

Sampling Techniques

A variety of protocols are available to collect water samples such as: AS/NZS 5667.1:1998 AS 2031 series

Please contact the Client Services team for more information

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