Title	Design and perform microbiological sampling for laboratory analysis					
Level	6	Credits	4			

Purpose	People credited with this unit standard are able to: design a sampling plan; perform microbiological sampling and store samples; and select and perform a sub-sampling process to provide a laboratory applying
	provide a laboratory sample for laboratory analysis.

Classification	Science > Microbiology	
Available grade	Achieved	18.
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Guidance Information

- 1 All work must be carried out in accordance with the quality management system, documented protocol system or Standard Operating Procedures (SOP) acceptable in a commercial or research laboratory.
- 2 Health and Safety practices must conform to Australian/New Zealand Standard AS/NZS 2243 Safety in Laboratories Parts 1, 2, 3, 7 and 10 available at http://www.standards.co.nz.
- Legislation applicable to this unit standard includes: Health and Safety at Work Act 2015; Hazardous Substances and New Organisms Act 1996.
- 4 Evidence is required for two samples from two different sources soil, water, food, animal, plant, medical, industrial surface.
- 5 Glossary

Laboratory procedures refer to documented systems or processes of operation which may be found in a SOP manual, quality management system, or in protocol system documentation. These procedures are external and/or internal laboratory requirements governing laboratory work.

Standard refers to the Food Standards Australian New Zealand Code, Standard 1.6.1 – *Microbiological Limits for Food*, available at

http://www.foodstandards.govt.nz/code/Pages/default.aspx.

Outcomes and performance criteria

Outcome 1

Design a sampling plan.

Performance criteria

1.1 Sampling plan is designed which aligns to the standard for the specific material to be analysed.

Range plan includes – statistical validity, representative sample collection, handling changes to sample, resources.

- 1.2 The resources required to implement the plan are identified and explained in accordance with laboratory procedures.
 - Range collection vessels, transport conditions, labelling, sample documentation, laboratory procedures document.

Outcome 2

Perform microbiological sampling and store samples.

Performance criteria

- 2.1 Resources for sampling are prepared in accordance with the sampling plan.
- 2.2 The sampling is carried out, and samples are stored and labelled in accordance with the sampling plan and laboratory procedures.

Range aseptic sampling, labelling, storage, traceability, sample documentation.

Outcome 3

Select and perform a sub-sampling process to provide a laboratory sample for laboratory analysis.

Performance criteria

- 3.1 The selection details the sample division in terms of the sample.
- 3.2 Sub-sampling is carried out and documented in accordance with the sampling plan and laboratory procedures.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment			
Registration	1	21 May 2010	31 December 2025			
Rollover	2	27 January 2015	31 December 2025			
Review	3	27 September 2018	31 December 2025			
Review	4	30 November 2023	31 December 2025			

Consent and	Moderation	n Re	quir	ements (C	MR) reference	0113		
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This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.