

Title	Perform methods for plant tissue culture		
Level	6	Credits	3

Purpose	People credited with this unit standard are able to: prepare medium and inoculate with plant tissue material; and incubate and cultivate tissue culture.
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Classification	Science > Microbiology
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Available grade	Achieved
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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>.
- 3 Legislation applicable to this unit standard includes:
Health and Safety at Work Act 2015;
Hazardous Substances and New Organisms Act 1996.
- 4 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.
- 5 Recommended for entry: Unit 8040, *Perform aseptic laboratory techniques*; and Unit 26117, *Work safely in a science laboratory*.

Outcomes and performance criteria

Outcome 1

Prepare medium and inoculate with plant tissue material.

Performance criteria

- 1.1 Preparation of medium is carried out and sterility of medium confirmed in accordance with laboratory procedures.

- 1.2 Plant material is prepared and inoculated on medium in accordance with laboratory procedures.

Outcome 2

Incubate and cultivate tissue culture.

Performance criteria

- 2.1 Inoculated medium is incubated in accordance with laboratory procedures.
- 2.2 Sub-cultures are propagated from the tissue culture in accordance with laboratory procedures.

Replacement information	This unit standard and unit standard 26114 replaced unit standard 8104.
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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Status information and last date for assessment for superseded versions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 2014
Revision	2	17 June 2011	31 December 2025
Rollover	3	27 January 2015	31 December 2025
Review	4	27 September 2018	31 December 2025
Review	5	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.