

<b>Title</b>	<b>Perform methods for plant tissue culture</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	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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<b>Classification</b>	Science > Microbiology
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<b>Available grade</b>	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> and <http://infostore.saiglobal.com/store>.
- 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*.

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### 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.

<b>Replacement information</b>	This unit standard and unit standard 26114 replaced unit standard 8104.
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<b>Planned review date</b>	31 December 2023
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## 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	N/A
Rollover	3	27 January 2015	N/A
Review	4	27 September 2018	N/A

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

## Comments on this unit standard

Please contact NZQA National Qualifications Services [nqs@nzqa.govt.nz](mailto:nqs@nzqa.govt.nz) if you wish to suggest changes to the content of this unit standard.