

<b>Title</b>	<b>Perform histological techniques</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: perform tissue sampling; perform procedures in the preparation of a histological slide; and assess histological slide using a light microscope.
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<b>Classification</b>	Science > Biology
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Recommended skills and knowledge: Unit 26117, *Work safely in a science laboratory*.
- 2 All work must be carried out in accordance with the quality management system, documented protocol system or Standard Operating Procedures acceptable in a commercial or research laboratory.
- 3 Health and Safety practices must conform to Australian/New Zealand Standard AS/NZS 2243:2010 Set – Safety in Laboratories Parts 1, 2, 3, 7, and 10 available at <http://www.standards.co.nz> and <http://infostore.saiglobal.com/store>.
- 4 Legislation applicable to this unit standard includes:  
Health and Safety at Work Act 2015;  
Hazardous Substances and New Organisms Act 1996.
- 5 It is expected that the candidate will have knowledge of plant or animal tissues.
- 6 Glossary  
*Specimen* refers to the tissue source e.g. liver or stem.  
*Tissue sample* is the sample of the specimen e.g. core of the liver or section of the stem.  
*Laboratory procedures* refer to documented systems or processes of operation which may be found in a SOP manual, quality management system or protocol system documentation. These procedures are external and/or internal laboratory requirements governing laboratory work.

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## Outcomes and performance criteria

### Outcome 1

Perform tissue sampling.

#### Performance criteria

- 1.1 Specimen is prepared in accordance with laboratory procedures.  
Range minimisation of artefacts, contamination, deterioration.
- 1.2 Tissue sample is taken in accordance with laboratory procedures.
- 1.3 Tissue sample is preserved in accordance with laboratory procedures.  
Range tissue sample includes – field, laboratory.
- 1.4 Tissue sampling is documented in accordance with laboratory procedures.

### Outcome 2

Prepare a histological slide.

#### Performance criteria

- 2.1 Slide preparation of the tissue sample is carried out in accordance with laboratory procedures.  
Range fixation, embedding, sectioning, staining, mounting.
- 2.2 Preparation of the slide is explained in terms of section integrity.  
Range minimisation of artefacts, contamination, deterioration.
- 2.3 Histological slide is documented in accordance with laboratory procedures.

### Outcome 3

Assess histological slide using a light microscope.

#### Performance criteria

- 3.1 Histological slide is examined under a light microscope and assessed in accordance with laboratory procedures.

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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 2022
Rollover	2	27 January 2015	31 December 2022
Rollover and Revision	3	15 June 2017	31 December 2022
Revision	4	26 October 2017	31 December 2022
Review	5	22 October 2020	31 December 2022

<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>.