

Title	Perform histological techniques		
Level	5	Credits	4

Purpose	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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Classification	Science > Biology
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Available grade	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.

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.

Planned review date	31 December 2020
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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	N/A
Rollover	2	27 January 2015	N/A
Rollover and Revision	3	15 June 2017	N/A
Revision	4	26 October 2017	N/A

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>.

Comments on this unit standard

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