

Title	Measure animal physiological processes		
Level	6	Credits	4

Purpose	People credited with this unit standard are able to: select, set up, and maintain equipment; gather measurement data; and report on data for animal physiological processes.
----------------	--

Classification	Science > Biology
-----------------------	-------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Ethical considerations that need to be met include:
 - a meeting requirements of relevant legislation, codes of practice, and industry standards;
 - b obtaining approval from the appropriate ethics committee;
 - c adhering to procedures required by the animal ethics committee.
- 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*, 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 Processes include – sensory process, circulation, motility, respiration.
- 6 Glossary
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

Select, set up, and maintain equipment to measure animal physiological processes.

Performance criteria

- 1.1 Equipment is selected relevant to the physiological process to be measured.
- 1.2 Equipment is set up in accordance with equipment specification and/or laboratory procedures.
- 1.3 Equipment is calibrated in accordance with to manufacturer's specification and/or laboratory procedures.
- 1.4 Equipment is maintained in accordance with manufacturer's specification and/or laboratory procedures.

Outcome 2

Gather measurement data for animal physiological processes.

Performance criteria

- 2.1 The parameter/s and sample/s to be measured are selected in accordance with laboratory procedures.
- 2.2 Data is recorded in accordance with laboratory procedures.
- 2.3 Data is monitored during the measuring process to establish validity.

Range attributes of validity – repeatability, accuracy, reliability, sufficiency.
- 2.4 Any problems with sample/s and equipment are recognised during measuring process, and remedial actions are taken in accordance with laboratory procedures.

Outcome 3

Report on data for animal physiological processes.

Performance criteria

- 3.1 Summary of data is reported in accordance with laboratory procedures.

Range tables, graphs, means.
- 3.2 Report identifies any problems recognised and remedial action taken to meet the requirements of the laboratory procedures.

- 3.3 Report identifies the relationship between the data and the animal physiological process.
- 3.4 Report is communicated as required by laboratory procedures or documented experimental protocol.

Planned review date	31 December 2020
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 December 1996	31 December 2014
Revision	2	19 February 1998	31 December 2014
Revision	3	2 November 1999	31 December 2014
Review	4	21 May 2010	N/A
Rollover	5	27 January 2015	N/A
Rollover and Revision	6	15 June 2017	N/A
Revision	7	26 October 2017	N/A

Consent and Moderation Requirements (CMR) reference	0113
--	------

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.