

Title	Perform laboratory centrifugation techniques		
Level	4	Credits	1

Purpose	People credited with this unit standard are able to: perform differential centrifugation; and density gradient centrifugation.
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Classification	Science > Biochemistry
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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) typically 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 Underpinning knowledge includes protection from aerosols, corrosive materials, bio-hazardous materials, unbalanced tubes.
- 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.

Outcomes and performance criteria

Outcome 1

Perform differential centrifugation.

Performance criteria

- 1.1 Separation is achieved that is consistent with the sample.
- 1.2 Separation is carried out in accordance with laboratory procedures and manufacturers' instructions.
- 1.3 Log of operation is maintained in accordance with laboratory procedures and manufacturers' instructions.

Outcome 2

Perform density gradient centrifugation.

Range one of – step, continuous.

Performance criteria

2.1 The equipment and conditions selected are appropriate to the sample.

Range rotor, tubes, revolutions per minute (rpm), gravitational force (G force), time.

2.2 Density gradient is prepared to the characteristics of the sample.

2.3 Separation is achieved that is consistent with the sample.

Range one of – density of sample is measured, sample is successfully retrieved.

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Status information and last date for assessment for superseded versions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	22 December 1996	31 December 2014
Review	2	23 November 1999	31 December 2014
Review	3	17 September 2010	31 December 2025
Rollover	4	27 January 2015	31 December 2025
Review	5	27 September 2018	31 December 2025
Review	6	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference

0113

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.