

<b>Title</b>	<b>Perform paper, thin layer, and column chromatography</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 chromatographic techniques; and interpret results.
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<b>Classification</b>	Science > Biochemistry
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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 Evidence of chromatography techniques must include – paper, thin layer, column. These chromatography techniques could include using cellulose, ion exchange, exclusion, affinity, or silica.
- 5 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.
- 6 Recommended for entry: Unit 12363, *Demonstrate knowledge of chromatography systems*.

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### Outcomes and performance criteria

#### Outcome 1

Perform chromatographic techniques.

**Performance criteria**

- 1.1 Solvent system is selected appropriate to separation requirements.
- 1.2 Medium is selected appropriate to the sample.
- 1.3 Detection method is selected appropriate to the sample.
- 1.4 Selections made are justified in accordance with laboratory procedures.

**Outcome 2**

Interpret results.

**Performance criteria**

- 2.1 Results are recorded and analysed in accordance with laboratory procedures.
- 2.2 Interpretation is consistent with results and sample.

<b>Replacement information</b>	This unit standard replaced unit standard 8045 and unit standard 8047.
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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	17 September 2010	N/A
Rollover	2	27 January 2015	N/A
Review	3	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.