Title	**Perform high pressure liquid chromatography**		
Level	**6**	**Credits**	**3**

Purpose	People credited with this unit standard are able to: explain high pressure liquid chromatographic techniques; and perform an analysis using high pressure liquid chromatography.

Classification	Science > Biochemistry

Available grade	Achieved

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 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.

5 Recommended for entry: Unit 12363, *Demonstrate knowledge of chromatography systems*; and Unit 26486, *Perform paper, thin layer, and column chromatography*.

Outcomes and performance criteria

Outcome 1

Explain high pressure liquid chromatographic (HPLC) techniques.

Performance criteria

1.1 An HPLC system is explained in terms of sample separation in accordance with manufacturer's instructions.

Range system includes – column, solvent system, detection method.

1.2 Chromotographic data is explained in terms of an HPLC system.

Range anomalies, peaks, standards.

Outcome 2

Perform an analysis using high pressure liquid chromatography.

Performance criteria

2.1 Solvents and samples are prepared in accordance with laboratory procedures.

2.2 Column and parameters are selected in accordance with laboratory procedures.

2.3 Separation of sample components is achieved to allow sample to be identified.

2.4 Quantitative analyses are performed on the sample in accordance with laboratory procedures.

2.5 Results are recorded and analysed in accordance with laboratory procedures.

2.6 Interpretation is consistent with results and sample.

Planned review date	31 December 2023

Status information and last date for assessment for superseded versions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	22 September 2004	31 December 2014
Review	4	17 September 2010	N/A
Rollover	5	27 January 2015	N/A
Review	6	27 September 2018	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.