

Title	Demonstrate knowledge of brix measurement procedures and take brix samples		
Level	2	Credits	2

Purpose	People credited with this unit standard are able to: demonstrate knowledge of brix measurement procedures; and take brix samples.
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Classification	Food and Related Products Processing > Food and Related Product Production
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard may include but is not limited to:
Health and Safety at Work Act 2015.
Food Act 2014.
Food Regulations 2015.
Resource Management Act 1991.
- 2 Definitions
Organisational procedures refer to documents that include: worksite rules, codes, and practices; equipment operating instructions; manufacturer's specifications; production specifications; documented quality management systems; and health and safety requirements, including the use of PPE.
PPE refers to personal protective equipment such as protective clothing, gloves, safety glasses, headwear, footwear, hearing protection, safety devices.
- 3 Assessment information
All activities and evidence must be in accordance with organisational procedures.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of brix measurement procedures.

Performance criteria

- 1.1 The meaning of the term brix is described.

Range refining process – process flows, finished products.

- 1.2 The methods for measuring brix are described.
- Range equipment – laboratory refractometer, hand-held refractometer, spindle hydrometer.
- 1.3 Reasons for possible deviations from expected brix values are explained.
- Range deviations include but are not limited to – instrument calibration, temperature.
- 1.4 The impact of deviations from expected brix values to the process are explained.

Outcome 2

Take brix samples.

Performance criteria

- 2.1 Brix sampling equipment is handled in a manner which avoids contamination in accordance with manufacturer's specification.
- 2.2 Brix sampling equipment is checked for function, and faults are identified and repaired or reported.
- 2.3 Brix samples are taken in accordance with laboratory protocol, recorded, and labelled.
- Range includes but is not limited to – micro-sampling, process sampling, finished product sampling.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 February 2008	31 December 2022
Review	2	25 February 2021	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.