

Culture and identify fungi to division level

Level 5

Credits 3

Purpose People credited with this unit standard are able to culture fungi and identify fungi to division level.

Subfield Science

Domain Microbiology

Status Registered

Status date 21 May 2010

Date version published 21 May 2010

Planned review date 31 December 2015

Entry information Recommended: Unit 8040, *Perform aseptic laboratory techniques*; and Unit 26117, *Work safely in a science laboratory*; or demonstrate equivalent knowledge and skills.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) NZQA National Qualifications Services

Accreditation and Moderation Action Plan (AMAP) reference 0152

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

Special notes

- 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 Set:2006 *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 in Employment Act 1992
Hazardous Substances and New Organisms Act 1996.

- 4 The underpinning knowledge for this unit standard is fungal structure and metabolism.
- 5 Glossary
Division refers to the following taxonomic groups – ascomycota, basidiomycota, zygomycota, deuteromycota.
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.

Elements and performance criteria

Element 1

Culture fungi.

Performance criteria

- 1.1 Media are prepared for the fungi to be cultured.
Range fungi include – yeast, filamentous.
- 1.2 Fungi are cultured in accordance with laboratory procedures.

Element 2

Identify fungi to division level.

Performance criteria

- 2.1 Fungi are distinguished using colony and cellular morphology.
Range fungi include – yeast, filamentous.
- 2.2 Filamentous fungi are identified to division using morphological characteristics and reproductive structures.
- 2.3 Sexual and asexual reproductive structures are identified in accordance with laboratory procedures.
- 2.4 Identification processes are documented in accordance with laboratory procedures.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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.