



Australian Government

FBPLAB2002 Prepare laboratory solutions and stains

Release: 1

FBPLAB2002 Prepare laboratory solutions and stains

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to prepare a variety of solutions and stains for routine tests carried out in a standard laboratory setting.

This unit applies to individuals who are responsible for preparing test solutions and stains required for standard analytical tests, determined by the scope and classification of the laboratory.

All work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety, and food safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Laboratory (LAB)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare materials and equipment	1.1 Identify and confirm job requirements 1.2 Identify and select standard methods for solution preparation in accordance with workplace procedures 1.3 Confirm availability of required materials, reagents and equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Confirm environmental guidelines and identify potential workplace health and safety hazards and controls according to workplace procedures 1.5 Select and fit appropriate personal protective equipment as per manufacturers' specifications 1.6 Select and assemble appropriate volumetric glassware and measuring equipment, materials and reagents as per requirements 1.7 Check shelf life of reagents and solutions and replace out-of-date or reject materials
2. Prepare solutions and stains	2.1 Follow standard workplace method to prepare solution or stain 2.2 Measure appropriate quantities of reagents for solution preparation as per requirements 2.3 Prepare solutions to achieve homogeneous mix of the specified concentration 2.4 Transfer solutions to appropriate containers in accordance with workplace procedures 2.5 Label containers with solution details and log details in laboratory register in line with workplace practices 2.6 Monitor shelf life of working solutions and dispose of those unfit for use, according to workplace procedures
3. Complete laboratory procedure	3.1 Clean and store glassware and equipment after use, and store reagents 3.2 Clean and sanitise equipment and work surfaces after use according to workplace requirements 3.3 Use aseptic techniques to ensure health and hygiene of self and others 3.4 Collect, treat and dispose of or recycle waste generated by the process in accordance with workplace waste management policies 3.5 Complete records according to workplace requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Numeracy	Use measuring equipment accurately, calculating specified concentrations and dilutions, in line with method
Get the work done	Problem solve issues as they arise

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPLAB2002 Prepare laboratory solutions and stains	FDFLAB2004A Prepare laboratory solutions and stains	Updated to meet Standards for Training Packages Prerequisite removed Minor changes to Performance Criteria to clarify outcomes Foundation skills added	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>