



Australian Government

AHCSDT303 Perform a fluorescence test on seeds

Release: 1

AHCSDT303 Perform a fluorescence test on seeds

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to perform tests that determine the presence of seeds of annual ryegrass species in seedlots of perennial ryegrass. It applies to seed analysts working within enterprise requirements and procedures.

It applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources. All work is carried out to comply with workplace procedures.

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

Pre-requisite Unit

Nil.

Unit Sector

Seed testing (SDT)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for a fluorescence test	1.1 Identify seed to be tested and complete records 1.2 Prepare working sample from submitted sample 1.3 Prepare the required number of replicates of 100 seeds 1.4 Prepare substrate as prescribed for a germination test using dormancy breaking treatments if necessary 1.5 Place replicates in a germination cabinet/room
2. Assess germinated	2.1 Count off and record all un-germinated seeds and abnormal

Element	Performance criteria
seeds	seedlings 2.2 Examine normal seedlings under ultra violet light 2.3 Count off and record normal seedlings that have fluorescent roots under ultra violet light 2.4 Count off and record normal seedlings that do not have fluorescent roots under ultra violet light 2.5 Minimise exposure of bare skin to ultra violet light 2.6 Complete enterprise worksheet
3. Maintain a safe work environment	3.1 Record, calculate and report results of test 3.2 Collect and dispose of laboratory and hazardous waste safely 3.3 Clean and store apparatus and equipment

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCSDT303A Perform a fluorescence test on seeds.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCSDT303 Perform a fluorescence test on seeds

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- prepare for a fluorescence test
- assess seedlings using ultra violet light
- count and record test results
- prepare replicates from working sample
- test to determine the presence of seeds of annual ryegrass species in perennial ryegrass seedlots
- maintain a safe work environment

Knowledge Evidence

The candidate must demonstrate knowledge of:

- enterprise and/or legal traceability requirements
- enterprise standard operating procedures (SOPs)
- fluorescence testing procedures
- relevant work health, safety and environment requirements
- seed biology
- the role of the International Seed Testing Association (ISTA) and the ISTA Rules for Seed Testing

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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