

## Knowledge Assessment

<b>Qualification</b>	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
<b>Competency Standard</b>	<b>Prepare Culture Media</b>
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </div> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Define culture medium		
2.	What should be the room temperature to keep culture media prior to use? a) 0-10 b) 5-15 c) 15-20 d) 25-30		
	a) 0-10 b) 5-15 c) 15-20 d) 25-30		
3.	Enlist culture media ingredients		

4.	Enlist culture media tools/equipments		
5.	How to preserve culture media?		
6.	Why culture media sterilized before use?		
7.	Why are Petri plates inverted after they cool?		
8.	Describe different ways for sterilizing culture media and supplies.		

## Key

National Vocational Certificate level 2 to 5, in **Agriculture Sector (Soil, Water and Fertilizer Testing Lab Technician)**

### Prepare Culture Media

<b>Questions</b> (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		<b>Satisfactory</b>	<b>Not Satisfactory</b>
1.	Define culture medium		
	A nutrient substance that is used to cultivate microorganisms		
2.	What should be the room temperature to keep culture media prior to use? e) 0-10 f) 5-15 g) 15-20 h) 25-30		
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3.	Enlist culture media ingredients		
	Nutrients, carbohydrates, essential minerals, Buffering agents		
4.	Enlist culture media tools/equipment		
	Petri dish, flasks, weighing balance, hot plate/burner, beaker, thermometer, stirrer, sealing film/tape, autoclave, incubator, cotton, laminar flow hood		
5.	How to preserve culture media?		
	Sealed, unopened containers should be stored at 4°C before use		
6.	Why culture media sterilized before use?		
	To avoid unwanted microbial contamination		
7.	Why are Petri plates inverted after they cool?		
	Petri plates are inverted to avoid dripping moisture on the media		

8.	Describe different ways for sterilizing culture media and supplies.		
	<ul style="list-style-type: none"> <li>a. Autoclaving</li> <li>b. dry-heat sterilization</li> <li>c. fire flaming</li> <li>d. UV radiation</li> <li>e. Ethanol wiping</li> </ul>		