

B516	ORCHID AGAR					
Formula						
Ingredients :		gms/lit.				
Calcium nitrate		1.00				
Monopotassium dihydrogen phosphate		0.25				
Magnesium sulphate		0.25				
Ammonium sulphate		0.50				
Ferrous sulphate		0.025				
Manganese sulphate		0.0075				
Saccharose		20.00				
Agar		15.00				
Final pH (at 25°C) : 5.0 ± 0.2						
Directions :						
Suspend 37 gms. in 1000ml distilled water. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes.						
Principle :						
Orchid Agar was developed by Knudson for the germination of orchid seeds. In his research he found the importance of the presence of minor elements like copper, manganese and zinc for the growth of orchid seeds. Double or triple the amount of iron than manganese in the medium, is optimum for the orchid seed germination. Ammonium and magnesium sulphate in the medium help in germination of the orchid seeds. Saccharose (sucrose) is the carbohydrate source in the medium while monopotassium phosphate helps in maintaining the acidic pH of the medium by its buffering action.						
QC Tests - (I) Dehydrated Medium						
	Colour :	Light yellow				
	Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium						
	pH (post autoclaving/heating) :	5.0 ± 0.2				
	Colour (post autoclaving/heating) :	Light yellow				
	Clarity (post autoclaving/heating) :	Opalescent				
(III) Q.C. Test Microbiological						
	Satisfactory germination of orchid seeds was observed within a month.					
Precautions :		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For germination of orchid seeds.				
Storage :		Dehydrated medium and prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B516		37.0 g/l	13.51 L	5.0 ± 0.2	Nil	121°C/15 min.

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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