

B1184	HC AGAR BASE				
Formula					
Ingredients :		gms/lit.			
Tryptone		2.50			
Proteose peptone		2.50			
Yeast extract		5.00			
Dextrose		20.00			
Disodium phosphate		3.50			
Monopotassium phosphate		3.40			
Ammonium chloride		1.40			
Magnesium sulphate		0.060			
Chloramphenicol		0.10			
Sodium carbonate		1.00			
Agar		15.00			
Final pH (at 25°C) : 7.0± 0.2					
Directions :					
Suspend 54.46 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Add 20 ml of Polysorbate 80. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.					
Principle :					
Cosmetics do not need to be sterile but they must be adequately preserved. Microbial contamination to cosmetics is a substantial risk to product quality, regulatory compliance and consumer health, HC agar base, formulated by Mead and O'Neill, is used for enumeration moulds in cosmetic products. This medium differs from the traditionally used media for testing cosmetics products by addition of Polysorbate 80 and incubation time of 3 days, rather than 7 days, at 27°C ± 0.5°C to obtain a significant mold count. HC agar base contains tryptone and proteose peptone, which serve as sources of carbon, nitrogen, vitamins and minerals. Yeast extract acts as a source of B-complex vitamins that helps to stimulate bacterial growth. Dextrose serves as a source of energy by being the fermentable carbohydrate. Ammonium chloride and magnesium sulphate provide essential ions. Phosphates buffer the medium. Sodium carbonate helps to inactivate the low levels of preservatives if present (e.g. benzoic acid). Chloramphenicol inhibits accompanying bacteria, including <i>Pseudomonas aeruginosa</i> and <i>Serratiamarcescens</i> . Polysorbate 80 also neutralizes preservatives and sequesters surfactants that may be present in the sample.					
QC Tests – (I) Dehydrated Medium					
Colour :	Pale yellow				
Appearance :	Homogeneous Free Flowing powder				
(II) Rehydrated medium					
pH (post autoclaving/heating) :	7.0 ± 0.2				
Colour (post autoclaving/heating) :	Medium amber				
Clarity (post autoclaving/heating) :	Clear to slightly opalescent				
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 65 –72 hrs. at 27.5±0.5°C.					
MICROORGANISM (ATCC)	GROWTH				
<i>Aspergillus brasiliensis</i> (ATCC 16404)	Good				
<i>Pseudomonas aeruginosa</i> (ATCC 27853)	None-poor				
<i>Serratiamarcescens</i> (ATCC 8100)	None-poor				
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 :					
HC Agar Base when supplemented with Polysorbate 80 is used for enumerating moulds in cosmetic products..					
Storage :					
Dehydrated medium-between 15-25°C Prepared medium- Between 2 to 8°C.					
Packing :					
500 gm bottle					
Product profile:					
	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1184	54.46g/l	9.18 L	7.0± 0.2	Polysorbate 80	121°C/15 minutes

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 BIOMARKLABORATORIES publications.

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