

**TECHNICAL SHEET**

<b>B071</b>		<b>TRICHOPHYTON AGAR NO.4</b>				
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Vitamin free casein acid hydrolysate		2.50				
Dextrose		40.00				
Monopotassium dihydrogen phosphate		1.80				
Magnesium sulphate		0.10				
Thiamine hydrochloride		0.0002				
Agar		15.00				
Final pH (at 25°C) :		6.8 ± 0.2				
<b>Directions :</b>						
Suspend 59.4 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in test tubes. Sterilize by autoclaving at 15 lbs pressure (121°) for 15 minutes. Allow the tubed medium to cool in a slanted position.						
<b>Principle :</b>						
The method employs a Vitamin free casein that is vitamin-free (Trichophyton Agar-1, B074) to which different vitamins are added i.e. inositol (Trichophyton Agar-2, B073), thiamine and inositol (Trichophyton Agar-3, B072), thiamine (Trichophyton Agar-4) (B071) and nicotinic acid (Trichophyton Agar-5) (B070). The various additives added help to determine the specific vitamin and amino acid requirements of the isolates. Trichophyton Agar-1 is used along with medium 2, 3 and 4 to determine whether the isolate require inositol, thiamine or both. Nutritional requirements are determined by inoculating a control medium and a medium enriched with a specific vitamin or amino acid with Trichophyton isolates that have been presumptively identified by gross colony characteristics and microscopic morphology. Moderate to heavy growth in the vitamin or amino acid-enriched medium compared to little or no growth in the basal medium indicates that the isolate requires that nutrient.						
<b>QC Tests – (I)Dehydrated Medium</b>						
	Colour :	White to light yellow				
	Appearance :	Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
	pH (post autoclaving/heating) :	6.8 ± 0.2				
	Colour (post autoclaving/heating) :	Light amber				
	Clarity (post autoclaving/heating) :	clear to slightly opalescent gel forms in tubes as slants				
<b>(III)Q.C. Test Microbiological</b>						
	Cultural characteristics observed after an incubation at 25-30°C for 2 weeks.					
	MICROORGANISM (ATCC )		GROWTH			
	Trichophyton mentagrophytes (9533)		Luxuriant			
	Trichophyton rubrum (28191)		Luxuriant			
<b>Precautions :</b>		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
<b>Use :</b>		It is used for differentiation of Trichophyton species				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B071</b>		59.40 g/l	8.417 L	6.8 ± 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 BIOMARKLABORATORIES publications.

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