

TECHNICAL SHEET

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|--|---|---|-----------|------------|----------------|
| B074 | TRICHOPHYTON AGAR NO.1 | | | | |
| Formula | | | | | |
| Ingredients: | | gms/lit. | | | |
| Vitamin free casein acid hydrolysate | 2.50 | | | | |
| Dextrose | 40.00 | | | | |
| Monopotassium dihydrogen phosphate | 1.80 | | | | |
| Magnesium sulphate | 0.10 | | | | |
| Agar | 15.00 | | | | |
| Final pH (at 25°C): | | 6.8 ± 0.2 | | | |
| Directions : | | | | | |
| 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. | | | | | |
| Principle : | | | | | |
| 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. | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | |
| | Colour : | White to light yellow | | | |
| | Appearance : | Homogeneous Free Flowing powder | | | |
| (II)Rehydrated medium | | | | | |
| | 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 | | | |
| (III)Q.C. Test Microbiological | | | | | |
| | Cultural characteristics observed after an incubation at 25-30°C for 2 weeks. | | | | |
| | MICROORGANISM (ATCC) | GROWTH | | | |
| | Trichophyton equinum (22443) | None | | | |
| | Trichophyton mentagrophytes (9533) | good-luxuriant | | | |
| | Trichophyton rubrum (28191) | good-luxuriant | | | |
| | Trichophyton violaceum (24787) | 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 : | It is used for differentiation of Trichophyton species | | | | |
| Storage : | Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C. | | | | |
| Packing : | 500 gm. bottle | | | | |
| Product profile: | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
| B074 | 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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