

TECHNICAL SHEET

PP007	D.T.M. Agar (Dermatophyte Test Agar Base) Plate		
Formula			
Ingredients:		gms/lit.	
Soya peptone	10.00		
Dextrose	10.00		
Phenol red	0.20		
Agar	20.00		
Final pH (at 25°C): 5.5 ± 0.2			
Directions:			
Label the ready to use plate (PP007). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.			
Principle:			
The soya peptone provides nitrogenous and carbonaceous substances essential for growth, Dextrose is the energy source. A combination of three antimicrobial agents (cycloheximide, chlortetracycline and gentamicin) inhibits bacteria and saprophytic yeasts and molds. Dermatophytes are presumptively identified based on gross morphology and the production of alkaline metabolites, which raise the pH and cause the phenol red indicator to change the color of the medium from yellow to pink-red. D.T.M. Agar helps in isolation and early recognition of members of the Microsporum, Trichophyton by means of the distinct color change from yellow to red. Rapidly growing species may affect a complete color change within 3 days while slow growers will change color in proportionately longer time. Non-Dermatophytes can be recognized by the absence of color change. A few saprophytes, yeasts and bacteria change the medium from yellow to red, but can be easily distinguished by colonial morphology. Complete classification of Dermatophytes depends on microscopic observations along with biochemical and serological tests.			
(I) QC Tests			
	pH:	5.5 ± 0.2	
	Color:	Orange Red coloured medium	
	Appearance:	Sterile Dermatophyte Test Agar in 90X15mm disposable plates.	
(II) Sterility test		Passes release criteria	
(III) Q.C. Test Microbiological			
	Cultural characteristics observed after incubation at 22 - 28°C for up to 6 days.		
	MICROORGANISM (ATCC)	GROWTH	COLOR OF COLONY
	Trichophyton mentagrophytes 9533	Good	Pink-red
	Candida albicans 10231	Good	-
	Microsporum audouinii 9079	Good	Pink-red
	Aspergillus niger 16404	none-poor	-
	Pseudomonas aeruginosa 27853	none-poor	-

Precautions :	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
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 selective isolation of dermatophytes.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	10/20/50 disposable plates.

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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