

TECHNICAL SHEET

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| 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 | - |

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| 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: | 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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