

## DERMATOPHYTE (D.T.M.) AGAR

Selective medium for dermatophytic fungi isolation.

### TYPICAL FORMULA (g/l)

Soytone	11.0
Glucose	10.0
Cycloheximide	0.5
Gentamicin	0.1
Phenol Red	0.2
Agar	15.0

Final pH = 5.5 ± 0.1 at 25 °C.

### DIRECTIONS

Suspend 36.8 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize in autoclave at 115 °C for 10 minutes. Cool to 45-50 °C. Aseptically add 2 vials of Dermatophyte supplement (chlortetracycline 50 mg/vial) (code 81025), each vial reconstituted with 5 ml of sterile distilled water. Mix well. Final medium will contain chlortetracycline 100 mg/l. Dispense in petri dishes.

### DESCRIPTION

DERMATOPHYTE (D.T.M.) AGAR is utilized for the isolation of the dermatophytic fungi responsible for lesions of skin, nails and hair (*Microsporum*, *Trichophyton*, *Epidermophyton*). The medium's selective agents (cycloheximide, gentamicin, chlortetracycline) inhibit the growth of the bacteria.

Saprophytic fungi do not normally grow on DTM except when the specimen is heavily contaminated; in this case they are characterized by slower growth and by the color of the colonies (black for *Aspergillus niger* and *Cladosporium*, green for *Penicillium spp*) sometimes with color change of medium to red; *Candida albicans* cultivates without color change of the medium.

### TECHNIQUE

Inoculate the medium by streaking the specimen using a sterile loop and incubate at 22-30 °C up to 7 days. Dermatophytic fungi grow with a color change of the indicator from red to red-violet.

### QUALITY CONTROL

#### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: white.

#### Prepared medium

Appearance: clear to very slightly opalescent.

Color: colorless.

Incubation conditions: 22-30 °C for 7-14 days.

Microorganism	ATCC	Growth
<i>Aspergillus niger</i> <input type="checkbox"/>	16404	none
<i>Escherichia coli</i> <input type="checkbox"/>	25922	none
<i>Candida albicans</i> <input type="checkbox"/>	10231	good

### STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.

Store prepared plates at 2-8 °C.

### REFERENCES

- Allen, A.M., R.A. Drewry, and R.E. Weaver. (1970). Arch. Derm. **102**: 68-70.
- Taplin, D., N. Zaias, G. Rebell, and H. Blank. (1969). Arch. Derm. **99**:1969.



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**PRESENTATION**

Product	REF	$\Sigma$
DERMATOPHYTE (D.T.M.) AGAR (13.5 l)	610160	500 g
DERMATOPHYTE (D.T.M.) AGAR (2.7 l)	620160	100 g
DERMATOPHYTE (Chlortetracycline 50 mg/vial)	81025	10 vials

**TABLE OF SYMBOLS**

<b>LOT</b> Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	<b>IVD</b> <i>In Vitro</i> Diagnostic Medical Device
<b>REF</b> Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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