



Dermatest Modified

Dermatophyte Test Agar / Sabouraud CAF Agar

Dipslide for detection of yeasts and moulds.

DESCRIPTION

Dermatest Modified is a ready-to-use device with two different culture media coated onto a plastic support for the isolation, identification and cultivation of pathogenic and nonpathogenic fungi from clinical specimens.

The results can be used as an aid in diagnosis of skin infections and must be used in conjunction with data on the patient's clinical history.

TYPICAL FORMULA

Dermatophyte Test Agar (DTA) Side 1	(g/l)	Sabouraud CAF Agar (SCA) Side 2	(g/l)
Enzymatic Digest of Soybean Meal	10.0	Enzymatic Digest of Casein	5.0
Glucose	10.0	Enzymatic Digest of Animal Tissue	5.0
Phenol Red	0.2	Glucose	40.0
Cycloheximide	0.5	Chloramphenicol	0.05
Gentamicin	0.1	Agar	15.0
Chloramphenicol	0.1	Final pH 5.6 ± 0.2	
Agar	20.0		
Final pH 5.5 ± 0.2			

METHOD PRINCIPLE

Dermatophyte Test Agar includes cycloheximide, gentamicin and chloramphenicol as selective agents to inhibit bacterial growth and to markedly reduce saprophytic fungi contamination while permitting a high rate isolation of dermatophytes. Phenol red is incorporated as pH indicator allowing early recognition of *Microsporum*, *Trichophyton*, and *Epidermophyton* genera because of a distinct color change in the medium.

Sabouraud CAF Agar contains chloramphenicol to inhibit a wide range of Gram-negative and Gram-positive bacteria. The high glucose concentration along with the acid pH make this medium particularly well suited for cultivating fungi.

TEST PROCEDURE

1. Inspect the agar surfaces with tube closed; dipslides showing signs of desiccation, contamination, or other deterioration must not be used.
2. Label the tube with patient name, specimen number, and date of inoculation.
3. Unscrew cover and remove the slide from the plastic tube, without touching the agar surfaces.
4. Holding the slide by the stopper, seed the surfaces of the culture media directly with a collection swab containing clinical material taken from a cutaneous lesion, or other specimens, like hair and nails.
5. Carefully return the slide into its plastic tube and close tightly.
6. Incubate the tube at 25-30°C (Fig. 5) for 2 to 7 days under aerobic atmosphere.

RESULTS INTERPRETATION

Examine for fungal colonies exhibiting typical microscopic and colonial morphology.

On DTA (**Side 1**), appearance of white aerial hyphae and red color around the fungal growth is positive for the presence of dermatophytic fungi. Growth, without a color change to red, indicates that the organism is probably not a dermatophyte.

If growth appears on SCA (**Side 2**) and no growth appears on DTA, the organism is not a dermatophyte. Colonies with green or black hyphae is not typical of dermatophytes even though the media may turn red.

Further biochemical and/or serological testing is recommended for complete identification.

APPEARANCE

Side 1. Slightly opalescent, orange.

Side 2. Slightly opalescent, amber.

STORAGE CONDITIONS

10-25°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident.

SHELF LIFE

6 months

QUALITY CONTROL

Slides are inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity: 50-100 CFU.

Inoculum for selectivity: 10⁴-10⁶ CFU.

Incubation conditions: 25-30°C / 48-96 h.

QC Table.

Microorganism		Growth on Side 1 (DTA)	Growth on Side 2 (SCA)
<i>Candida albicans</i>	ATCC® 10231	Good	Good
<i>Trichophyton mentagrophytes</i>	ATCC® 9533	Good	Good
<i>Aspergillus niger</i>	ATCC® 16404	Inhibited	Good
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	Inhibited	Good
<i>Escherichia coli</i>	ATCC® 25922	Inhibited	Inhibited
<i>Staphylococcus aureus</i>	ATCC® 25923	Inhibited	Inhibited

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use by properly trained operators only.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulation in force.

BIBLIOGRAPHY

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- Taplin D., Zaias N., Rebell G., Blank H. (1969) Arch. Derm., 99,1969.
- Prospero Magdalene T. and Reyes A.C. (1955) Acta Mel. Phillipina 12 (2). 69-74.
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PRESENTATION**Packaging****Ref.**

Dermatest Modified

20 diplslides

500222

TABLE OF SYMBOLS

LOT Batch code	IVD <i>In Vitro</i> Diagnostic Medical device	 Manufacturer	 Use by	 Fragile, handle with care
REF Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult Instruction For Use	 Do not reuse

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