

## TMP 040 – SABOURAUD DEXTROSE AGAR (SDA) PLATE W/ CYCLOHEXIMIDE

### INTENDED USE

For cultivation of yeast, moulds and aciduric microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Sabouraud Dextrose Agar with Cycloheximide is a selective medium that can be used for cultivating yeasts, molds and aciduric microorganisms. It is also used for cultivating pathogenic fungi, particularly those associated with skin infections. This medium is at the same time used for determining the microbial and fungal content of cosmetics and for the mycological evaluation of food.

### COMPOSITION

Ingredients	Gms / Ltr
Agar	15.000
Dextrose (Sucrose)	40.000
Mycological, peptone	10.000
Cycloheximide	0.400

### PRINCIPLE

Mycological Peptone provides nitrogenous compounds. Dextrose provides an energy source. High dextrose concentration and low pH favors fungal growth and inhibits contaminating bacteria from test samples. Cycloheximide is an antibiotic which inhibits saprophytic fungi but allows the growth of pathogenic fungi: *Cryptococcus neoformans*, *Aspergillus fumigatus* and some species of *Candida albicans*, *Candida krusei*. For heavily contaminated samples, the plate must be supplemented with inhibitory agents for inhibiting bacterial growth with lower pH.

### INSTRUCTION FOR USE

Either streak, inoculate or surface spread the test inoculum aseptically on the plate.

### QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light amber colored medium clear to slightly opalescent gel.
Quantity of medium	:	25ml of medium in 90mm plates.
pH (at 25°C)	:	5.6± 0.2
Sterility Check	:	Passes release criteria

### INTERPRETATION

Cultural response was observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Candida albicans</i>	10231	50-100	Good	40-50%	30-35°C	24-48 hours
<i>Aspergillus brasiliensis</i>	16404	10-100	Good	0-10%	20-25°C	3-7 days
<i>Saccharomyces cerevisiae</i>	9763	50-100	None-poor	0-10%	20-25°C	2-3 days



<i>Trichophyton rubrum</i>	28191	50-100	Luxuriant	≥70%	20-25°C	5-7 days
<i>Trichophyton mentagrophytes</i>	9533	50-100	Luxuriant	≥70%	20-25°C	5-7 days
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	Inhibited	-	20-25°C	≥ 3 day
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	Inhibited	-	30-35°C	≥ 48 hours

#### PACKAGING:

Doubled layered packing containing 5 No. of plates with one silica gel desiccant bag packed inside it.

#### STORAGE

On receipt, store the plates at 2-8 °C. Avoid freezing and overheating. Do not open until ready to use. Prepared plates stored in their original sleeve wrapping until just prior to use may be inoculated up to the expiration date and incubated for recommended incubation times. Allow the medium to warm to room temperature before inoculation.

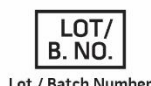
**Product Deterioration:** Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

#### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

#### REFERENCES

1. Bacteriological Analytical Manual, 8th Edition, Revision A, 1998. AOAC, Washington D.C
2. Carlier G. I. M., 1948, Brit. J. Derm. Syph., 60:61.
3. Murray PR, Baron EJ, Tenover JC, Tenover FC (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.
4. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061



**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**

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