



## Sabouraud Glucose Agar w/ Antibiotics

M1472

### Intended Use:

Recommended for selective cultivation of yeasts and moulds

### Composition\*\*

Ingredients	g / L
Tryptone	5.000
Peptone	5.000
Glucose	40.000
Agar	15.000
Final pH ( at 25°C)	5.6±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 65.0 grams in 995 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Aseptically add rehydrated contents of one vial of TR Selective Supplement (FD196). Mix well and pour into sterile Petri plates.

### Principle And Interpretation

Sabouraud Glucose Agar w/Antibiotics is used for selective cultivation of yeasts and moulds Sabouraud Dextrose Agar is Carliers modification (1) of the formulation described by Sabouraud (2) for the cultivation of fungi. Sabouraud Glucose Agar w/Antibiotics is a modification of Sabouraud Dextrose Agar formulated by Sabouraud (2). The medium is used with Tetracycline for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria. Tryptone and peptone provide nitrogenous compounds. Glucose provides an energy source. Tetracycline inhibits a wide large of gram positive and gram negative bacteria making the medium selective for fungi. The low pH favors fungal growth and inhibits contaminating bacteria from clinical specimen.

### Type of specimen

Clinical samples - Skin scrapping, nail scrapping; Food and dairy samples.

### Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,4). For food and dairy samples, follow appropriate techniques for sample collection and processing as per guidelines (5,6,7). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions :

In Vitro diagnostic Use. For professional use only. Read the label before opening the container. Wear protective gloves/ protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations :

1. Some pathogenic fungi may produce infective spores, which are easily dispersed in air, so examination should be carried out in safety cabinet.

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.

2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

**Quality Control****Appearance**

Cream to yellow homogeneous free flowing powder

**Gelling**

Firm, comparable with 1.5% Agar gel

**Colour and Clarity of prepared medium**

Light amber coloured clear to slightly opalescent gel forms in Petri plates

**Reaction**

Reaction of 6.5% w/v aqueous solution at 25°C. pH : 5.6±0.2

**pH**

5.40-5.80

**Cultural Response**

Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours with added tetracycline supplement (Incubate for 7 days for *Trichophyton* species).

Organism	Inoculum (CFU)	Growth	Recovery
# <i>Aspergillus brasiliensis</i> ATCC 16404 (00053*)	50-100	good-luxuriant	
<i>Candida albicans</i> ATCC 10231 (00054*)	50-100	good-luxuriant	>=50%
<i>Escherichia coli</i> ATCC 25922 (00013*)	>=10 <sup>4</sup>	inhibited	0%
<i>Lactobacillus casei</i> ATCC 334	>=10 <sup>4</sup>	inhibited	0%
<i>Saccharomyces cerevisiae</i> ATCC 9763 (00058*)	50-100	good-luxuriant	>=50%
<i>Trichophyton rubrum</i> ATCC 28191	50-100	good-luxuriant	
<i>Escherichia coli</i> ATCC 8739 (00012*)	>=10 <sup>4</sup>	inhibited	0%

Key: \*Corresponding WDCM numbers. #Formerly known as *Aspergillus niger*

**Storage and Shelf Life**

Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

**Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

**Reference**

1. Carlier G.I.M 1948, Brit J. Derm Syph. 60 61.
2. Sabouraud K 1892, Ann Dermatol. Syphilol, 3 : 1061.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
5. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
6. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, American Public Health Association, Washington, D.C.

7.Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.

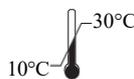
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