

## TM 2321 - SABOURAUD DEXTROSE BROTH MEDIUM 3. (as per IP)

### INTENDED USE

For cultivation of yeasts, moulds and aciduric microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Sabouraud Dextrose Agar is Carliers modifications of the formulation described by Sabouraud for the cultivation of fungi, particularly those associated with skin infections. The medium is also recommended by APHA. Sabouraud Dextrose Broth is also a modification by Sabouraud and serves the same purpose as Sabouraud Dextrose Agar. Medium 3. Sabouraud Dextrose Broth is in accordance with Indian Pharmacopoeia.

Sabouraud dextrose media are peptone media supplemented with dextrose to support the growth of fungi. The acid reaction of the final medium is inhibitory to a large number of bacteria making it particularly useful for cultivating fungi and aciduric microorganisms. For isolation of fungi from contaminated specimens, a selective medium should be inoculated simultaneously. Incubate cultures for 4 to 6 weeks before reporting as negative.

### COMPOSITION

Ingredients	Gms / Ltr
Peptones(meat and casein)	10.000
Dextrose monohydrate	20.000

### PRINCIPLE

Peptone special provides nitrogen, vitamins, minerals, amino acids and growth factors. Dextrose provides an energy source for the growth of microorganisms. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens.

### INSTRUCTION FOR USE

- Dissolve 30 gram in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense as desired and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes i.e. validated cycle, do not overheat.

### QUALITY CONTROL SPECIFICATIONS

**Appearance of Powder** : Cream to yellow homogeneous free flowing powder.  
**Appearance of prepared medium** : Light amber coloured clear solution in tubes.  
**pH (at 25°C)** : 5.6±0.2

### INTERPRETATION

Culture characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
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<i>Candida albicans</i>	10231	10 -100	Luxuriant	20 -25 °C	<=5 Days
<i>Aspergillus brasiliensis</i>	16404	10 -100	Luxuriant	20 -25 °C	<=5 Days
<i>Saccharomyces cerevisiae</i>	9763	10 -100	Luxuriant	20 -25 °C	<=5 Days
<i>Saccharomyces cerevisiae</i>	2601	10 -100	Good-luxuriant	20 -25 °C	<=5 Days
<i>Escherichia coli</i>	8739	50 -100	Luxuriant (inhibited on media with low pH)	20 -25 °C	<=5 Days
<i>Escherichia coli</i>	25922	50 -100	Good-luxuriant	20 -25 °C	<=5 Days
<i>Escherichia coli</i>	9002	50 -100	Luxuriant (inhibited on media with low pH)	20 -25 °C	<=5 Days
<i>Lactobacillus casei</i>	334	50 -100	Luxuriant	20 -25 °C	<=5 Days

#### PACKAGING:

In pack size of 100 gm and 500 gm bottles.

#### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

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

#### DISPOSAL

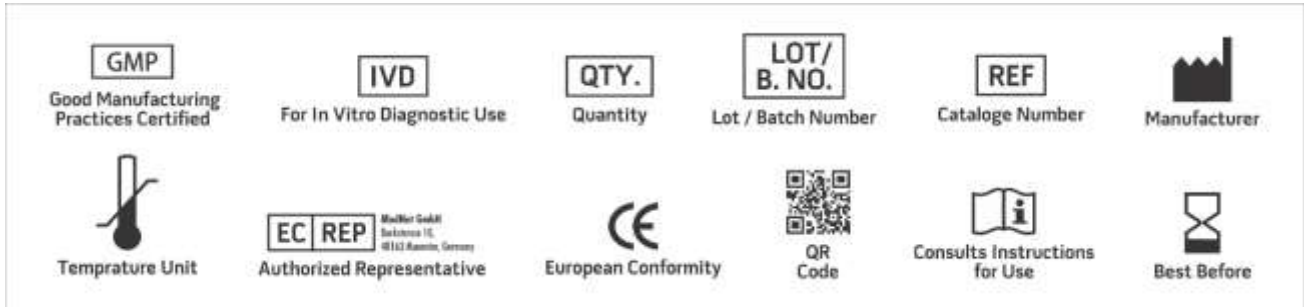
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

#### REFERENCES

1. Carlier G. I. M., 1984, Brit. J. Derm. Syph., 60:61



2. Sabouraud R., 1892, Ann. Dermatol. Syphil. 3: 1061.
3. Downes F. P. and Ito K., (Eds.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, Washington, D.C.
4. Sabouraud R., Les Teignes, Paris: Masson et Cie, 1910, p 553
5. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
6. Indian Pharmacopeia 2014, Ministry of Health and Family welfare, Govt of India, Ghaziabad.



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

**\*For Lab Use Only**  
**Revision: 08 Nov., 2019**