

## TM 2318 - SABOURAUD DEXTROSE BROTH, MODIFIED

### INTENDED USE

For isolation of yeasts and molds from cosmetics in accordance with FDA BAM, 1998.

### PRODUCT SUMMARY AND EXPLANATION

Microorganisms have the ability to grow and reproduce in cosmetics. Through this, they can bring spoilage and chemical changes to the product which in turn can cause even injury to the end user. Most important methods for isolation of microorganisms from cosmetic products include direct colony counts and enrichment culturing. Water insoluble products need to be rendered miscible before the isolation procedures. Dissolved products are further diluted and plated on appropriate broth/ agar. The isolated microorganisms are identified by routine microbiological methods or by commercial identification kits. Sabouraud Dextrose Broth, Modified is prepared in accordance FDA BAM for the cultivation of yeasts and molds from cosmetics. Sabouraud dextrose media are peptone media supplemented with dextrose to support the growth of fungi.

10-1dilution of respected sample is prepared in Latheen Broth, Modified, as per the BAM protocol. For enrichments, dilute prepared sample decimally in Sabouraud Dextrose Broth, Modified and incubate at  $30\pm 2^{\circ}\text{C}$  for 48 h. If growth occurs, streak on Sabouraud's dextrose agar, Malt Agar, w/ 2% Agar or Potato Dextrose Agar w/2% Agar and proceed for identification and confirmation.

### COMPOSITION

Ingredients	Gms / Ltr
Polypeptone	10.000
Dextrose	40.000

### 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 favors fungal growth and inhibits contaminating bacteria from clinical specimens.

### INSTRUCTION FOR USE

- Dissolve 50 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure ( $121^{\circ}\text{C}$ ) for 15 minutes.
- Mix well and dispense as desired.

### 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 $25^{\circ}\text{C}$ )	: $5.6\pm 0.2$

### INTERPRETATION

Cultural characteristics was observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period



<i>Candida albicans</i>	10231	10 -100	Luxuriant	20-25°C	3-5 days
<i>Aspergillus brasiliensis</i>	16404	10 -100	Luxuriant	20-25°C	3-5 days
<i>Saccharomyces cerevisiae</i>	9763	10 -100	Luxuriant	20-25°C	3-5 days
<i>Saccharomyces cerevisiae</i>	2601	10 -100	Good-luxuriant	20-25°C	3-5 days
<i>Candida albicans</i>	2091	10 -100	Luxuriant	20-25°C	3-5 days
<i>Escherichia coli</i>	25922	50 -100	Good-luxuriant	20-25°C	3-5 days

**PACKAGING:**

In pack size of 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. FDA, U.S. 1998. Bacteriological Analytical Manual. 8 ed. Gaithersburg, Md.: AOAC International.
2. Murray, P. R., Baron, J. H., Pfaller, M. A., Jorgensen, J. H. and Tenover, R. C. 2003. Manual of Clinical Microbiology, 8ed. Washington, D.C.: American Society for Microbiology.



 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Buckenhof 10 48143 Aachen, Germany</small>	 European Conformity	 QR Code	 Consults instructions for Use	 Best Before

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

**\*For Lab Use Only**  
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