



## Sabouraud Dextrose Broth

Liquid medium for the cultivation of yeasts and moulds from different materials, according to USP/EP/JP.

### DESCRIPTION

Sabouraud Dextrose Broth (SDB) is a liquid medium recommended for use in qualitative procedures for isolation of yeasts and moulds and for the culture or subculture of fungi from clinical and nonclinical specimens.

This medium conforms to the requirements of the harmonized method in the United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) for the microbiological examination of non sterile products.

### TYPICAL FORMULA

|                                | (g/l) |
|--------------------------------|-------|
| Pancreatic Digest of Casein    | 5.0   |
| Peptic Digest of Animal Tissue | 5.0   |
| Dextrose                       | 20.0  |
| Final pH 5.6 ± 0.2 at 25°C     |       |

### METHOD PRINCIPLE

Pancreatic digest of casein and peptic digest of animal tissue provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Dextrose is an energy source. The high concentration of dextrose and the acidic pH of the medium permit selectivity of fungi.

The medium can be supplemented with chloramphenicol to increase bacterial inhibition and recovery of dermatophytes.

### PREPARATION

**Dehydrated medium** Suspend 30 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Dispense into appropriate containers. Sterilize in autoclave at 121°C for 15 minutes.

### TEST PROCEDURE

#### For use in medical microbiology

Inoculate the specimen directly into the broth. Incubate aerobically at 25°C for 2-7 days (incubation conditions may vary according to the type of specimen and the microorganisms being tested for).

#### For use in industrial microbiology

To prepare the fungal test strains grow *C. albicans* or *A. brasiliensis* at 20-25°C for 48-72 hours or 5-7 days, respectively.

To test for *C. albicans*, inoculate the preparation of the product to be examined 1:100 in SDB and incubate at 30-35°C for 3-5 days. Subculture on a plate of Sabouraud Dextrose Agar (ref. 10035).

### INTERPRETING RESULTS

Turbidity indicates microbial growth.

### APPEARANCE

Dehydrated medium: free-flowing, homogeneous, light beige.

Prepared medium: clear, light amber, may have a slight precipitate.

### STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store tubes and bottles at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

### SHELF LIFE

Dehydrated medium: 4 years.

Medium in bottles/tubes: 2 years.

**QUALITY CONTROL**

The medium is inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity:  $\leq 100$  CFU.

Incubation conditions:  $32.5 \pm 2.5^\circ\text{C}$  for 48-72 h (*C. albicans*) and at  $22.5 \pm 2.5^\circ\text{C}$  for up to 5 days (all listed organisms), under aerobic atmosphere.

**QC Table.**

| Microorganism                   |             | Growth |
|---------------------------------|-------------|--------|
| <i>Candida albicans</i>         | ATCC® 10231 | Good   |
| <i>Aspergillus brasiliensis</i> | ATCC® 16404 | Good   |
| <i>Saccharomyces cerevisiae</i> | ATCC® 9763  | Good   |

**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 and must be used only by properly trained operators.

**DISPOSAL OF WASTE**








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

**BIBLIOGRAPHY**

1. European Pharmacopoeia 6.5 (2009) 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
2. United States Pharmacopoeia 32 NF 27 (2009) <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia 4.05 (2008) Microbiological examination of non-sterile products: Test for specified microorganisms.
4. Sabouraud, R. (1892) Ann. Dermatol. Syphilol. 3:1061.

| PRESENTATION             |                   | Contents            | Ref.   |
|--------------------------|-------------------|---------------------|--------|
| Sabouraud Dextrose Broth | Tubes             | 20 x 10 ml tubes    | 24109  |
| Sabouraud Dextrose Broth | Bottles           | 6 x 100 ml bottles  | 402040 |
| Sabouraud Dextrose Broth | Bottles           | 25 x 100 ml bottles | 452040 |
| Sabouraud Dextrose Broth | Bottles           | 6 x 500 ml bottles  | 471070 |
| Sabouraud Dextrose Broth | Dehydrated medium | 500 g of powder     | 610104 |
| Sabouraud Dextrose Broth | Dehydrated medium | 100 g of powder     | 620104 |

**TABLE OF SYMBOLS**

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



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## SABOURAUD BROTH – SABŪRO SULTINYS

### PARUOŠIMAS

30 g terpės suspenduojama viename litre distiliuoto vandens. Kaitinant maišoma, kol visiškai ištirpsta. Išpilstoma ir sterilizuojama autoklavuojant 121° C 15 minučių.

### PANAUDOJIMAS

SABŪRO SULTINYS yra terpė skirta mielių, pelėsių ir acidofilinių bakterijų kultivavimui. Terpė ypač tinka kontroliuojant farmacinių gaminių sterilumą, siekiant išskirti pelėsius ir patikrinti farmacinių gaminių fungistatinį aktyvumą.

KULTŪRŲ CHARAKTERISTIKOS PO 18 – 48 VALANDŲ INKUBAVIMO 30 +/- 2° C TEMPERATŪROJE

| Mikroorganizmai                           | Augimas |
|---|---------|
| <i>Aspergillus niger</i> ATCC 1015        | Geras   |
| <i>Candida albicans</i> ATCC 10231        | Geras   |
| <i>Saccharomyces cerevisiae</i> ATCC 9763 | Geras   |

Formulė (g/litre)

Peptonas 10

Gliukozė 20

pH = 5,6 +/- 0,2

| PRODUKTAS       | KODAS  | ĮPAKAVIMAS |
|-----------------|--------|------------|
| SABOURAUD BROTH | 610104 | 500 g      |
|                 | 620104 | 100 g      |