



Sabouraud Dextrose Broth, SDB | AS-1343

Used for the cultivation of yeasts and molds.

A selective culture medium called Sabouraud Dextrose Broth (SDB) is mostly used for the isolation and cultivation of fungi, especially dermatophytes. To support fungal growth, the media are made with dextrose as a carbohydrate and peptone as a source of nitrogen. Most bacteria are inhibited in their growth by the medium's acidic pH, which favors the growth of fungi.

For isolating and counting fungus from clinical and environmental samples, solid medium (SDA) is frequently utilized. The main application of Sabouraud Dextrose Broth (SDB) is fungal enrichment and culturing.

SDA and SDB are commonly utilized in mycology labs and are listed in several pharmacopoeias for non-sterile product quality control testing.

Composition (gr/L)

| | |
|--------------------------------|-----------|
| Dextrose | 20 |
| Pancreatic digest of casein | 5 |
| Peptic digest of animal tissue | 5 |
| Final pH at 25°C | 5.6 ± 0.2 |

Preparation

Dissolve 30 g of the powder into 1 liter distilled water. Mix well. Autoclave at 121°C for 15 min.

Quality Control

Dehydrated Appearance: Light beige, free-flowing, homogeneous.

Prepared Appearance: Light amber, clear.

Reaction of 3.0% Solution at 25°C: pH 5.6 ± 0.2

Microbial Test Results

incubate at 30 ± 2 °C for 18 to 48 hours or up to 7 days if necessary.

NOTE: For (**) culture inoculate a 125 mL bottle and incubate at 30 - 35°C for 48 hours. For (***) culture inoculate a 125 mL bottle and incubate at 20 to 25°C for 3 days.

| Organism (ATCC) | Recovery |
|---|----------|
| <i>Aspergillus brasiliensis (niger)</i> (16404) | Good |
| <i>Candida albicans</i> (10231) | Good |
| <i>Lactobacillus casei</i> (9595) | Good |
| <i>Saccharomyces cerevisiae</i> (9763) | Good |
| <i>Candida albicans</i> ** (10231) | Growth |
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Storage

Keep the container at 15-30 °C and prepared medium at 2-8 °C.