

Sabouraud Fluid Medium

Cat. 1506

For the cultivation of yeasts and molds

Practical information

Applications	Categories
Selective enrichment	Yeasts and molds

Industry: Pharmaceutical/Veterinary

Principles and uses

Sabouraud Fluid Medium is employed in sterility test procedures for determining the presence of molds, yeasts and aciduric microorganisms. Sabouraud Fluid Medium is also used in the sterility tests of pharmaceutical products, in special parenterals, such as antisera, antibiotic preparations, venipuncture equipment, and saline and glucose solutions. It is recommended in the USP for the determination of the fungistatic activity of pharmaceutical and cosmetic products to prevent false sterility tests.

Dextrose is the fermentable carbohydrate providing carbon and energy. Casein and meat peptone provide nitrogen, vitamins, minerals and amino acids essential for growth. The acidic pH of the final medium is inhibitory to a large number of bacteria and makes the medium particularly well-suited for cultivating fungi and acidophilic microorganisms.

Formula in g/L

Dextrose	20	Casein peptone	5
Meat peptone	5		

Preparation

Suspend 30 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121 °C for 15 minutes. DO NOT OVERHEAT, since the medium contains high levels of carbohydrates that can caramelize (darken) and lose effectiveness.

Instructions for use

- Take the inoculum with a sterile loop.
- Submerge the handle into the medium and shake gently.
- Incubate at 30±2 °C for 18-48 hours.

Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber	5,7±0,2

Microbiological test

Incubation conditions: (30±2 °C / 18-48 h).

Microrganisms	Specification
Aspergillus brasiliensis ATCC 16404	Good growth
Escherichia coli ATCC 25922	Partially inhibited growth
Candida albicans ATCC 26790	Good growth
Lactobacillus rhamnosus ATCC 9595	Good growth

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C

Bibliography

Groove and Randall, Assay Methods of Antibiotic. Medical Encyclopedia. Inc. New York, 1958.
Davidson, A.M. and E.S. Dowding, and A.H. R. Buller. 1932. Hyphal fusions in dermatophytes. Can. J. Res. 6:1.
United States Pharmacopoeial Convention. 1995. The United States Pharmacopoeia, 23rd ed. The United States Pharmacopoeial Convention, Rockville, M.D.

DOMINIQUE DUTSCHER SAS