

Technical Data Sheet

Sabouraud-2 % Dextrose Broth

acc. harm. EP/USP/JP

Ordering number: 1.08339.0500

Sabouraud Dextrose Bouillon is designed for the cultivation of dermatophytes, yeasts and molds. It can also be used for sterility testing and the determination of the fungi-static activity of pharmaceutical and cosmeceutical products.

This medium complies with the recommendations of the harmonized methods of EP, USP, JP for Microbial Examination of Non-sterile Products: Microbial Enumeration Test and Tests for Specified Microorganisms.

Mode of Action

Sabouraud-2 % Dextrose Broth is used for the cultivation and isolation of yeasts and molds as well as the absence test for *Candida albicans*. The high concentration of dextrose in addition with the low pH promotes the growth, the formation of spores (*Conidia* and *Sporangia*) as well as the formation of pigments of yeasts and molds. On the other side, growth of bacteria is inhibited.

Typical Composition

Peptone from Casein	5 g/l
Peptone from Meat	5 g/l
D(+)-Glucose (= Dextrose)	20 g/l

Preparation

Suspend 30 g/l. If necessary dispense into smaller vessels. Autoclave (15 min at 121 °C).

The appearance of the broth is clear and yellowish-brown.

The pH value at 25 °C is in the range of 5.4-5.8.

Experimental Procedure and Evaluation

Depend on the purpose for which the culture medium is used.

Incubation: up to 7 days at 28 °C aerobically.

Storage

The product can be used for sampling until the expiry date if stored upright, protected from light and properly sealed at +15 °C to +25 °C.

After first opening of the bottle the content can be used up to the expiry date when stored dry and tightly closed at +15 °C to +25 °C.

Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

Quality Control

Control Strains	ATCC #	Incubation	Expected Results
<i>Trichophyton mentagrophytes</i>	18748	7 days at 28 °C	Growth good to very good
<i>Trichophyton rubrum</i>	28188	7 days at 28 °C	Growth fair to good
<i>Microsporum gallinae</i>	12108	7 days at 28 °C	Growth fair to good
<i>Trichophyton ajelloi</i>	28454	7 days at 28 °C	Growth fair to good
<i>Aspergillus brasiliensis</i> (formerly <i>A. niger</i>)	16404	7 days at 28 °C	Growth good to very good
<i>Penicillium commune</i>	10428	7 days at 28 °C	Growth good to very good
<i>Candida albicans</i>	10231	≤ 3 days at 30-35 °C	Growth fair to very good

Please refer to the actual batch related Certificate of Analysis.

Literature

European Directorate for the Quality of Medicines and Healthcare. (2014): The European Pharmacopoeia. 8th Ed. Chapter 2.6.12 Microbiological examination of non-sterile products: Microbial enumeration tests and Chapter 2.6.13 Microbiological examination of non-sterile products: Test for specified products. Strasbourg, France.

Japanese Ministry of Health, Labour and Welfare. (2011): The Japanese Pharmacopoeia. 16th Ed. Chapter 4.05 Microbial Limit Test I. Microbiological examination of non-sterile products: Total viable aerobic count and II. Microbiological examination of non-sterile products: Test for specified products. Japanese Ministry of Health, Labour and Welfare. Tokyo, Japan.

Mac Faddin, J.J. (1985): Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Vol. I. Williams & Wilkins, Baltimore, London, p. 687-691.

Sabouraud R. (1892). Ann. Dermatol. Syphil. **3**: 1061.

United States Pharmacopeial Convention. (2014): The United States Pharmacopeia 38/National Formulation 33, Supp. 2. Chapter <61> Microbiological examination of non-sterile products: Microbial enumeration tests and Chapter <62> Microbiological examination of non-sterile products: Test for specified products. Rockville, Md., USA.



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Ordering Information

Product	Cat. No.	Pack size
Sabouraud-2 % Dextrose Broth	1.08339.0500	500 g
Sabouraud-4 % Dextrose Agar	1.05438.0500	500 g
Sabouraud-4 % Dextrose Agar	1.05438.5000	5 kg

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