

SABOURAUD DEXTROSE BROTH (7617)

Intended Use

Sabouraud Dextrose Broth is used for the cultivation of fungi from sterile and non-sterile products. Conforms to Harmonized USP/EP/JP Requirements.^{1,2,3}

Product Summary and Explanation

Sabouraud Dextrose Broth is a modification of Dextrose Agar described by Sabouraud.⁴ Sabouraud Dextrose Media are used for cultivating pathogenic & commensal fungi and yeasts. The high dextrose concentration and acidic pH of the formulas permit selectivity of fungi.⁵ Sabouraud Dextrose Broth is used for the determination of fungistatic activity in sterile and non-sterile pharmaceutical, food & beverage, and cosmetic products.

Sabouraud Dextrose Broth conforms to Harmonized United States Pharmacopoeia (USP), European Pharmacopoeia (EU), and Japanese Pharmacopoeia (JP).^{1,2,3}

Principles of the Procedure

Enzymatic Digest of Casein and Enzymatic Digest of Animal Tissue provide the nitrogen and vitamin source required for organism growth in Sabouraud Dextrose Broth. The high concentration of Dextrose is included as an energy source.

Formula / Liter

Enzymatic Digest of Casein 5 g
 Enzymatic Digest of Animal Tissue..... 5 g
 Dextrose..... 20 g

Final pH: 5.6 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution

1. For Laboratory Use.

Directions

1. Dissolve 30 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 15 minutes.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free-flowing, and light beige to beige.

Prepared Appearance: Prepared medium is brilliant to clear, light to medium amber and may have a slight precipitate.

Expected Cultural Response and USP/EP/JP Growth Promotion Testing: Cultural response on Sabouraud Dextrose Broth tested at Harmonized USP/EP/JP specified temperatures and incubation times.^{1,2,3}

Microorganism	Approx. Inoculum (CFU)	Response
<i>Aspergillus niger</i> ATCC® 16404	10 - 100	Growth
<i>Candida albicans</i> ATCC® 10231	10 - 100	Growth
<i>Saccharomyces cerevisiae</i> ATCC® 9763	10 - 100	Growth

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure

Consult appropriate references for recommended test procedures.

Results

Growth is evident in the form of turbidity.

Storage

Store sealed bottle containing the dehydrated medium at 2 - 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if it is not free flowing, or if the medium has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Packaging

Sabouraud Dextrose Broth	Code No.	7617A	500 g
		7617B	2 kg
		7617C	10 kg

References

1. **United States Pharmacopeial Convention.** 2007. The United States pharmacopeia, 31st ed., Amended Chapters 61, 62, 111. The United States Pharmacopeial Convention, Rockville, MD.
2. **Directorate for the Quality of Medicines of the Council of Europe (EDQM).** 2007. The European Pharmacopoeia, Amended Chapters 2.6.12, 2.6.13, 5.1.4, Council of Europe, 67075 Strasbourg Cedex, France.
3. **Japanese Pharmacopoeia.** 2007. Society of Japanese Pharmacopoeia. Amended Chapters 35.1, 35.2, 7. The Minister of Health, Labor, and Welfare.
4. **Sabouraud, R.** 1892. Ann. Dermatol. Syphilol. 3:1061.
5. **Jarett, L., and A. C. Sonnenwirth (eds.).** 1980. Gradwohl's and parasitic infections, 7th ed. American Public Health Association, Washington, D.C.

Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.