Sabouraud Dextrose Broth (NCM0147)

Intended Use
Sabouraud Dextrose Broth is used for the cultivation of fungi from sterile and non-sterile products. Sabouraud Dextrose Broth conforms to Harmonized USP/EP/JP Requirements and is not intended for use in the diagnosis of disease or other conditions in humans.

Description
A medium recommended by the Harmonized Pharmacopoeia for the enrichment of *Candida albicans* from non-sterile samples and fungal test strain cultivation. Conforms to USP/EP/JP performance specifications. The peptones and dextrose provide a nutritious base for luxuriant fungal growth and the acidic pH affords selectivity against bacteria. Due to the high carbohydrate content and low pH this medium is highly sensitive to overheating. According to the Harmonized Pharmacopoeia, Sabouraud Dextrose Broth is used as an enrichment broth, with subculture performed onto Sabouraud Dextrose Agar.

Typical Formulation
Dextrose	20.0 g/L
Enzymatic Digest of Animal Tissue	5.0 g/L
Enzymatic Digest of Casein	5.0 g/L

Final pH: 5.6 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution
Refer to SDS

Preparation
1. Dissolve 30 grams of the medium in one liter of purified water.
2. Heat with frequent agitation to completely dissolve the medium, if necessary.
3. Autoclave at 121°C for 15 minutes

Test Procedure
Consult appropriate references for recommended test procedures.

Quality Control Specifications
Dehydrated Appearance: Powder is homogeneous, free-flowing, and beige.

Prepared Appearance: Prepared medium is clear, yellow.

Expected Cultural Response and USP/EP/JP Growth Promotion Testing: Cultures were incubated at appropriate temperatures and examined for growth at 2-5 days.

Effective Date: 2/13/2020
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Microorganism	Approx. Inoculum (CFU)	Response
Aspergillus brasiliensis ATCC® 16404	10-100	Growth
Candida albicans ATCC® 10231	10-100	Growth
Penicillium roquefortii ATCC® 10110	Stab inoculation	Growth
Saccharomyces cerevisiae ATCC® 9763	10-100	Growth
Trichophyton rubrum ATCC® 9533	Stab inoculation	Growth

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

Results
Growth is evident in the form of turbidity.

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

Storage
Store dehydrated culture media at 2 – 30°C away from direct sunlight. 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.

References
1. European Pharmacopoeia 10th Edition (2020)
2. United States Pharmacopeia National Formulary 2018: USP 41 NF 36
3. Japanese Pharmacopeia 17th Edition (2017)
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.

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