

Sabouraud Dextrose Broth

LQ129

For the enrichment of *Candida albicans* in accordance with harmonized methods of USP, EP, BP & JP.

Composition**

Ingredients	Gms / Litre
Peptone, special	10.000
Dextrose	20.000

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ129 bottle. Inoculate the sample and Incubate at specified temperature and time.

Principle And Interpretation

Fungi were among the first microorganisms recognized because some of the fruiting structures, such as the mushrooms, are large enough to be seen without a microscope. Fungi can be grouped simply on the basis of morphology as either yeasts or moulds (1). Fungal diseases that occur on the skin, hair and mucous membrane are called superficial mycoses, and the organism that cause them, the dermatophytes (2). Where fungi are to be isolated, it is good practice to use a medium that favors their growth but is not optimal for the growth of bacteria. Sabouraud Dextrose Broth is a modification of Dextrose Agar described by Sabouraud (3). It is useful for the cultivation of fungi. This medium is in accordance with the harmonized method of USP/EP/BP/JP (4,5,6,7) and is recommended for microbiological examination of non-sterile products. Peptic digest of animal tissues and pancreatic digest of casein provides nitrogenous compounds essential for the growth of fungi. Dextrose acts as the energy source.

Quality Control

Appearance

Sterile clear Sabouraud Dextrose Broth in bottle.

Colour

Light amber coloured clear solution

Quantity of Medium

20 ml of medium in glass bottle.

pH - 5.40- 5.80

Sterility test

Passes release criteria

Growth Promotion Test

Growth Promotion was observed in accordance with the harmonized method of USP/EP/BP/JP after an incubation at 30-35°C for ≤3 days.

Cultural Response :

Growth at 20-25 °C for 2-5 days.

Organism	Inoculum (CFU)	Growth
* <i>Aspergillus brasiliensis</i> ATCC 16404	50 -100	luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	50 -100	luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 2601	50 -100	good-luxuriant (inhibited on media with lower pH)

<i>Candida albicans</i> ATCC 10231	50 -100	luxuriant
<i>Candida albicans</i> ATCC 2091	50 -100	luxuriant
<i>Trichophyton rubrum</i> ATCC 28191	-	luxuriant(for 5-7 days)

Growth at 30-35 °C for < 3 days.

<i>Candida albicans</i> ATCC 10231	50 -100	luxuriant
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* *Aspergillus brasiliensis* ATCC 16404 earlier known as *Aspergillus niger* ATCC 16404

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label.

Reference

1 Murray P. R., Baron J. H., Pfaller M. A., Tenover J. C. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C. 2. Pelczar M. J., Jr., Reid R. D., Chan E. C. S., 1977, Microbiology, 4th Ed., Tata McGraw-Hill Publishing Company Ltd, New Delhi 3. Sabouraud, 1892, Ann. Dermatol. Syphilol, 3:1061. 4. The United States Pharmacopoeia, 2011, The United States Pharmacopoeial Convention, Rockville, MD. 5. British Pharmacopoeia, 2011, The Stationery office British Pharmacopoeia 6. European Pharmacopoeia, 2011, European Dept. for the quality of Medicines. 7. Japanese Pharmacopoeia, 2008.

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