

Technical Data

Peptone Yeast Dextrose Broth (Cantino)

M671

Peptone Yeast Dextrose Broth (Cantino) is used for the cultivation of aquatic fungi like Blastocladiella species.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	1.250
Yeast extract	1.250
Dextrose	3.000
Final pH (at 25°C)	6.8±0.2

^{**}Formula adjusted, standardized to suit performance parameters

Directions

Suspend 5.5 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle And Interpretation

Peptone Yeast Dextrose Broth (Cantino) was formulated by Cantino (1) for use in the cultivation of aquatic fungi like *Blastocladiella* species (2). These aquatic fungi grow well when a sugar like dextrose is present in the medium. Cantino reported that *Blastocladiella* grow luxuriantly under visible light illumination due to increased CO 2 fixation. Peptone Yeast Dextrose Broth (Cantino) has a similar composition as Peptone Yeast Dextrose Agar (Cantino) and like the latter is also recommended for the cultivation of *Eikenella corrodens* (3). *E. corrodens* is part of the resident microflora of mucous membrane surfaces in humans. Even though *E. corrodense* is generally regarded as organism of low virulence, it is usually involved in mixed bacterial infections, often with the viridans groups Streptococci and less frequently with various members of the *Enterobacteriaceae* (4).

The medium contains peptic digest of animal tissue and yeast extract, which supply the nitrogenous nutrients, vitamin B complex, peptides and trace ingredients for the growth of aquatic fungi and E. corrodens. Dextrose is the energy source.

Quality Control

Appearance

Off-white to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured clear solution in tubes

Reaction

Reaction of 0.55% w/v aqueous solution at 25°C. pH: 6.8±0.2

pН

6.60-7.00

Cultural Response

M671: Cultural characteristics observed after an incubation at 25°-30°C for upto 8 days.

Organism	Growth
Cultural Response	
Blastocladiella emersonii	luxuriant
ATCC 22665	
Candida albicans ATCC	luxuriant
10231	
Eikenella corrodens ATCC	luxuriant
23834	
Saccharomyces cerevisiae	luxuriant
ATCC 9763	

HiMedia Laboratories Technical Data

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

- 1. Cantino E. C., 1961, Mycologia, 48: 225.
- 2. Recheigl Jr., (Ed.), 1978, Handbook Series in Nutrition and Food, Section G., Vol. III, CRC Press Inc.
- 3. Atlas R. M., 2004, Handbook of Microbiological Media, Lawrence C. Parks (Ed.), 3rd Edition, CRC Press.
- 4. Balows A., Truper H. G., Dworkin M., Harder W., Schleifer K. H., (Eds.), 1992, The Prokaryotes, 2nd Edi, Vol. III, Springer-Verlag.

Revision: 2 / 2015

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMediaTM publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMediaTM Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.