

Technical Information

Peptone Yeast Dextrose Broth (Cantino)

Product Code: DM 1671

Application: 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

Principle & Interpretation

Peptone Yeast Dextrose Broth (Cantino) was formulated by Cantino⁽¹⁾ for the cultivation of aquatic fungi like *Blastocladiella* species⁽²⁾. These aquatic fungi grow well when a sugar like dextrose is present in the medium. He further reported that *Blastocladiella* grow luxuriantly under visible light illumination due to increased CO₂ 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⁾ which is part of microflora of mucous membrane surfaces in humans. Even though *E. corrodens* is generally regarded as organism of low virulence, it is usually involved as mixed bacterial infections, specially 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.

Methodology

Suspend 5.5 grams of powder media in 1000 ml distilled water. Shake well & 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.

Quality Control

Physical 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

pH Range 6.60-7.00

Cultural Response/ characteristics

DM 1671: Cultural characteristics observed after an incubation at 25°-30°C for upto 8 days.

Organism

Blastocladiella emersonii 22665
Candida albi cans ATCC 10231
Eikenella corrodens ATCC 23834
Saccharomyces cerevisiae ATCC 9763

Growth

luxuriant
luxuriant
luxuriant
luxuriant



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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.

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