Technical Information

Peptone Yeast Dextrose Agar (Cantino)

Product Code: DM 1670

Application: Peptone Yeast Dextrose Agar (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
Agar	20.000
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Peptone Yeast Dextrose Agar (Cantino) was formulated by Cantino [1] used 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 also reported that Blastocladiella grow luxuriantly under visible light illumination due to increased CO_2 fixation. Peptone Yeast Dextrose Agar (Cantino) is also recommended for the cultivation of Eikenella corrodens [3]. E. corrodens 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 in mixed bacterial infections, often with the viridans groups Streptococci and less frequently with members of 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 25.5 grams of powder media in 1000 ml distilled water. Shake well & heat 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

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 2.55% w/v aqueous solution at 25°C. pH : 6.8±0.2

pH Range 6.60-7.00

Cultural Response/ characteristics

DM 1670: Cultural characteristics observed after an incubation at 25-30°C for upto 8 days.

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

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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