



Soyabean Casein Digest Medium with BCP

M1655

Soyabean Casein Digest Medium with BCP is a general-purpose medium used for the cultivation of a wide variety of microorganisms. With the addition of carbohydrates it can be also used for the fermentation studies.

Composition**

Ingredients	Gms / Litre
Pancreatic digest of casein	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dibasic potassium phosphate	2.500
Dextrose	2.500
Bromocresol purple	0.010
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 30.01 grams of medium 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.

Principle And Interpretation

Soyabean Casein Digest Medium is a nutritious medium that will support the growth of a wide variety of microorganisms, including common aerobic, facultative and anaerobic bacteria and fungi (1-4). It can also be used as a general, all purpose cultivation medium (1). When tested for the growth of organisms in presence of indicator like bromocresol purple, the colour of the medium changes from purple to yellow. With the addition of carbohydrates it can be also used for the fermentation studies of fastidious and non-fastidious organisms.

Pancreatic digest of casein and papaic digest of soybean meal provides necessary amino acids and other complex nitrogenous substances. Dextrose serves as an energy source. Sodium chloride maintains the osmotic equilibrium. Dibasic potassium phosphate acts as a buffer to control pH.

Quality Control

Appearance

Light yellow to pale green homogeneous free flowing powder

Colour and Clarity of prepared medium

Purple coloured clear solution without any precipitate

Reaction

Reaction of 3.0% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

M1655: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours (Candida albicans incubated at 20-25°C for 2-7 days).

Organism	Inoculum (CFU)	Growth	Colour of medium
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	yellow
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant	yellow
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant	yellow

Bacillus subtilis ATCC 6633 50-100 good-luxuriant yellow

Storage and Shelf Life

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

Reference

1. MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.
2. Marshall (ed.). 1993. Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
3. Forbes, Sahm and Weissfeld. 1998. Bailey & Scotts diagnostic microbiology, 10th ed. Mosby, Inc. St. Louis, Mo.
4. Fredette and Forget. 1961. The sensitivity of several media to small inocula. Extract from a paper presented at the Canadian Society of Microbiology Annual Meeting, June 12-15. Kingston, Ontario, Canada.

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