



Soyabean Casein Digest Medium with BCP (gamma irradiated)

M1655G

Soyabean Casein Digest Medium with BCP (gamma irradiated) is a sterile powder recommended 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

Sterile powder can be used directly for the evaluation of sterility in manufacturing process. For sterile liquid medium aseptically add 30.01 grams in 1000 ml sterile distilled water. Heat if necessary to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Excessive heating is detrimental. Dispense aseptically in sterile tubes or flasks as desired.

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 yellow homogeneous free flowing powder

Colour and Clarity

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

Sterility test

No growth is observed after 14 days for Bacteria at 30-35°C and for fungi at 20-25°C.

Cultural Response

M1655G: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours (Candida albicans incubated at 25-30°C for 2-7 days).

Organism	Inoculum (CFU)	Growth	Colour of medium
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Cultural Response

<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
<i>Bacillus subtilis</i> 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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