



Soyabean Casein Digest Medium w/o Dextrose (Tryptone Soya Broth w/o Dextrose) M322

Soyabean Casein Digest medium w/o Dextrose is recommended for cultivation of anaerobes from root canals, blood and other specimens.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dibasic potassium phosphate	2.500
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 27.5 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Soyabean Casein Digest Medium is recommended by various pharmacopoeias as a sterility testing and as a microbial limit testing medium (1, 2, 3). This medium is a highly nutritious medium used for cultivation of a wide variety of organisms (4).

Soyabean Casein Digest Medium w/o Dextrose (M322) is a modification of Soyabean Casein Digest Medium and is used as a base for preparation of more complex media for the cultivation of organisms like *Neisseria*, pathogenic Streptococci etc. With the addition of carbohydrates it can be also used for the fermentation studies of fastidious and non-fastidious organisms. This medium is used for the cultivation of wide variety of microorganisms when the presence of carbohydrate is undesirable. Casein enzymic hydrolysate and papaic digest of soyabean meal supplies nitrogenous and carbonaceous compounds, trace minerals etc. Sodium chloride maintains osmotic balance while dibasic potassium phosphate provides buffering capacity. The carbohydrate concentration used most frequently in fermentation reactions is 0.5% or 1%.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate

Reaction

Reaction of 2.75% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

M322: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours

Organism	Inoculum (CFU)	Growth
<i>Bacteroides fragilis</i> ATCC 25285	50-100	good-luxuriant
<i>Clostridium perfringens</i> ATCC 12924	50-100	good-luxuriant

<i>Neisseria meningitidis</i> ATCC 50-100 13090	good
<i>Staphylococcus epidermidis</i> 50-100 ATCC 12228	good-luxuriant
<i>Streptococcus pneumoniae</i> 50-100 ATCC 6303	good-luxuriant
<i>Streptococcus pyogenes</i> 50-100 ATCC 19615	good-luxuriant

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. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams & Wilkins, Baltimore, M.d.
2. The United States Pharmacopoeia, 2008, USP31/NF26, The United States Pharmacopoeial Convention, Rockville, MD.
3. Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
4. Forbes B. A., Sahm D. F. and Weissfeld A. S., 1998, Bailey & Scotts Diagnostic Microbiology, 10th Ed., Mosby, Inc. St. Louis, Mo.

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