

TM 1930 - SOYBEAN CASEIN DIGEST MEDIUM W/O DEXTROSE (TRYPTONE SOYA BROTH W/O DEXTROSE)

INTENDED USE

For cultivation of anaerobic microorganisms when the presence of carbohydrates is not desired.

PRODUCT SUMMARY AND EXPLANATION

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

Soyabean Casein Digest Medium w/o Dextrose 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.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dibasic potassium phosphate	2.500

PRINCIPLE

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%.

INSTRUCTION FOR USE

- Dissolve 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 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Light yellow coloured clear solution without any precipitate.
pH (at 25°C)	: 7.3±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
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<i>Bacteroides fragilis</i>	25285	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Clostridium perfringens</i>	12924	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Neisseria meningitidis</i>	13090	50-100	Good	35-37°C	18-48 Hours
<i>Staphylococcus epidermidis</i>	12228	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Streptococcus pneumoniae</i>	6303	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good-luxuriant	35-37°C	18-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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.
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.





NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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