

TMH 102-SOYBEAN CASEIN DIGEST MEDIUM (TRYPTONE SOYA BROTH) (CASO BROTH) (as per USP/EP/BP/JP/IP)

INTENDED USE

For cultivation of wide variety of microorganisms recommended for sterility testing of molds and lower bacteria.

PRODUCT SUMMARY AND EXPLANATION

Soybean casein digest medium (as per USP/EP/JP/BP/IP) is used for cultivation of microorganism and sterility testing of molds and bacteria. This medium is used for the sensitivity testing of antimicrobial agents by the tube dilution method. It is also employed in diagnostic research in microbiology. This medium is used as a diluent and suspending medium for preparation of samples or test strains. It is also employed in sample preparation for testing of products, wherein incubation is carried out, only to serve sufficient resuscitation of the cell, while avoiding multiplication of the organism.

COMPOSITION

Ingredients	Gms / Ltr		
Pancreatic digest of Casein	17.000		
Sodium chloride	5.000		
Papaic digest of Soybean	3.000		
Dipotassium hydrogen phosphate	2.500		
Glucose	2.500		

PRINCIPLE

Papaic digest of soyabean meal and pancreatic digest of casein makes this medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Natural sugars in soybean promote growth of fastidious organism. Dipotassium hydrogen phosphate serves as the buffer in the medium. Sodium chloride maintains the osmotic balance. Glucose is the fermentable source of carbon.

INSTRUCTION FOR USE

- Dissolve 30.00 grams in 1000 ml distilled water.
- Gently heat to dissolve the medium completely.
- Dispense in tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.

Note: If any fibres are observed in the solution, it is recommended to filter the solution through a 0.22 micron filter to eliminate the possibility of presence of fibres.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow colour homogeneous free flowing powder

Appearance of prepared medium : Light yellow colour, clear solution

pH (at 25°C) : 7.3±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Growth promotion					











Staphylococcus aureus	6538	50-100	Luxuriant	30-35°C	18-24 Hours
Staphylococcus aureus	25923	50-100	Luxuriant	30-35°C	18-24 Hours
Escherichia coli	8739	50-100	Luxuriant	30-35°C	18-24 Hours
Escherichia coli	25922	50-100	Luxuriant	30-35°C	18-24 Hours
Pseudomonas aeruginosa	9027	50-100	Luxuriant	30-35°C	18-24 Hours
Pseudomonas aeruginosa	27853	50-100	Luxuriant	30-35°C	18-24 Hours
Bacillus subtilis	6633	50-100	Luxuriant	30-35°C	18-24 Hours
Salmonella typhimurium	14028	50-100	Luxuriant	30-35°C	18-24 Hours
Micrococcus luteus	9341	50-100	Luxuriant	30-25°C	18-24 Hours
Streptococcus pneumoniae	6305	50-100	Luxuriant	30-35°C	18-24 Hours
Candida albicans	10231	50-100	Luxuriant	30-35°C	<=5 Days
Candida albicans	2091	50-100	Luxuriant	30-35°C	<=5 Days
#Aspergillus brasiliensis	16404	50-100	Luxuriant	30-35°C	<=5 Days
Sterility Testing (Growth prom	otion+ Valida	tion			
Staphylococcus aureus	6538	50-100	Luxuriant	20-25°C	<=3 Days
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#Formerly Known as Aspergillus niger

PACKAGING

In 100 & 500 gm packaging size.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°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 powder show evidence of microbial contamination, discoloration, drying, or other signs of deterioration.

DISPOSAL

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

REFERENCES

- 1. British Pharmacopoeia, 2016, The Stationery Office British Pharmacopoeia
- 2. European Pharmacopoeia, 2017, European Dept. for the quality of Medicines.
- 3. Japanese Pharmacopoeia, 2016.







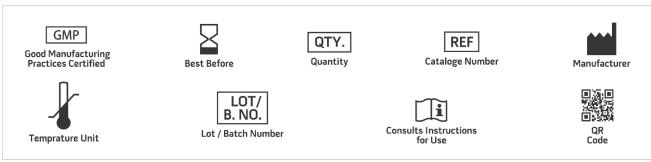






PRODUCT DATA SHEET

- 4. Indian Pharmacopoeia, 2018, Govt. of India, the controller of Publication, Delhi, India.
- 5. The United States Pharmacopoeia, 2019, the United States Pharmacopoeial Convention. Rockville, MD.
- Wright and Welch, 1959-60, Antibiotics Ann., 61.



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

*For professional use only. Revision: 05th June. 2020







