TM 419 – TRYPTONE SOYA BROTH (SOYA CASEIN DIGEST MEDIUM) (as per IP)

INTENDED USE

For cultivation of various microorganisms and sterility testing of molds and bacteria.

PRODUCT SUMMARY AND EXPLANATION

Soyabean Casein Digest Medium is recommended by various pharmacopeias 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.

COMPOSITION

Ingredients	Gms / Ltr
Tryptone	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dextrose (Glucose)	2.500
Dipotassium hydrogen phosphate	2.500

PRINCIPLE

The combination of Tryptone and soya peptone makes the medium nutritious by providing nitrogenous, carbonaceous substances, amino acids and long chain peptides for the growth of microorganisms. Dextrose/glucose serve as the carbohydrate source and dibasic potassium phosphate buffer the medium. Sodium chloride maintains the osmotic balance of the medium.

INSTRUCTION FOR USE

- Suspend 30.0 grams in 1000 ml purified/ distilled water.
- Heat if necessary to dissolve the medium completely.
- Mix well and dispense in tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (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 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 incubation.

Microorganism	ATCC	Inoculum (CFU)	Growth	Incubation Temperature	Incubation Period

Salmonella Typhimurium	14028	50 -100	Luxuriant	30 -35 °C	18-24 Hours
Pseudomonas aeruginosa	9027	50 -100	Luxuriant	30 -35 °C	18-24 Hours
Streptococcus pneumoniae	6305	50 -100	Luxuriant	30 -35 °C	18-24 Hours
Staphylococcus aureus subsp. aureus	6538	50 -100	Luxuriant	30 -35 °C	18-24 Hours
Escherichia coli	25922	50 -100	Luxuriant	30 -35 °C	18-24 Hours
Aspergillus brasiliensis	16404	50 -100	Luxuriant	20 -25 °C	<=5 d
Candida albicans	2091	10 -100	Luxuriant	30 -35 °C	<=5 d
Pseudomonas aeruginosa	9027	50 -100	Luxuriant	20 -25 °C	<=3 d
Streptococcus pneumoniae	6305	50 -100	Luxuriant	20 -25 °C	<=3 d
Micrococcus luteus	9341	50 -100	Luxuriant	20 -25 °C	<=3 d

PACKAGING:
In pack size of 100gm and 500 gm bottles.

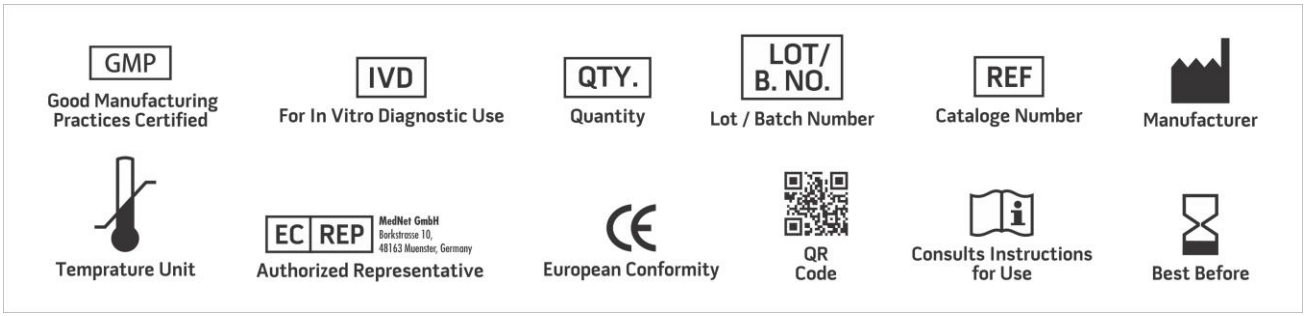
STORAGE
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label 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.Forbes B. A., Sahm D. F. and Weissfeld A. S., 1998, Bailey & Scotts Diagnostic Microbiology, 10th Ed., Mosby, Inc. St. Louis, Mo.
2. Indian Pharmacopeia, 2018, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
3. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams & Wilkins, Baltimore, M.d.
4. The United States Pharmacopeia, 2019, The United States Pharmacopeial Convention, Rockville, MD.



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

***For Lab Use Only**

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