

## CM 22006 – SOYA CASEIN DIGEST MEDIUM (TRYPTONE SOYA BROTH) (CASO BROTH)

### INTENDED USE

For the evaluation of sterility in manufacturing processes.

### 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
Sodium chloride	5.000
Soya peptone	3.000
Dipotassium hydrogen phosphate	2.500
Dextrose (Glucose)	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 distilled water.

Gently heat to boiling with gentle swirling to dissolve the medium completely.

Do not autoclave or overheat the medium.

Mix well and dispense in tubes or flasks as desired.

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/ml)	Growth	Incubation Temperature	Incubation Period
Salmonella Typhimurium	14028	10-100	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	6538	50-100	luxuriant	30-35°C	18-24 Hours
Escherichia coli	25922	50-100	luxuriant	30-35°C	18-24 Hours
Bacillus subtilis	6633	50-100	luxuriant	30-35°C	18-24 Hours
Candida albicans	10231	50-100	luxuriant	20-25°C	3-5 Days
Aspergillus brasiliensis	16404	50-100	luxuriant	20-25°C	3-5 Days

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 10-25°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 they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

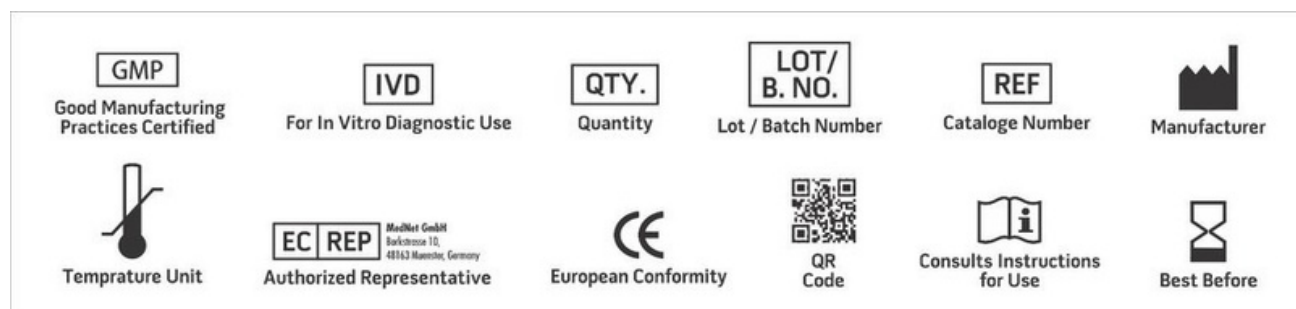
**DISPOSAL**

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



## REFERENCES

1. Indian Pharmacopeia, 2018, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
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3. The United States Pharmacopeia, 2019, The United States Pharmacopeial Convention, Rockville, MD.
4. Forbes B. A., Sahn D. F. and Weissfeld A. S., 1998, Bailey & Scotts Diagnostic Microbiology, 10th Ed., Mosby, Inc. St. Louis, Mo.
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
6. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11<sup>th</sup> Edition. Vol. 1.



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

\*For Lab Use Only