

## **CM 22428 - SOYABEAN CASEIN DIGEST AGAR PLATE W/ 1% GLYCEROL ( $\gamma$ - IRRADIATED) (TRIPLE PACK)**

### INTENDED USE

For cultivation of wide variety of microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Soyabean Casein Digest Agar is a widely used medium, which supports the growth of wide variety of organisms even that of fastidious ones such as Neisseria, Listeria, and Brucella etc. The medium with addition of blood provides perfectly defined haemolysis zones, while preventing the lysis of erythrocytes due to its sodium chloride content. It has been frequently used in the health industry to produce antigens, toxins etc. Its simple and inhibitor-free composition makes it suitable for the detection of antimicrobial agents in the food and other products. Tryptone Soya Agar is recommended by various pharmacopoeias as sterility testing medium.

The media are gamma irradiated in the packaging material to assure a reduction of the microbial load potentially present in the medium, on the dishes, and on the packaging materials.

### COMPOSITION

Ingredients	Gms / Ltr
Pancreatic Digest of Casein	15.000
Agar	15.000
Papaic digest of Soybean meal	5.000
Sodium chloride	5.000
Glycerol	10 ml

### PRINCIPLE

Tryptone Soya Agar conforms as per USP and is used in microbial limit test and antimicrobial preservative - effective test. Gunn et al used this medium for the growth of fastidious organisms and study of haemolytic reaction after addition of 5%v/v blood. The combination of pancreatic digest of casein and papaic digest of soyabean meal makes this media nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance. Soyabean Casein Digest Agar does not contain X and V growth factors. It can be conveniently used in determining the requirements of these growth factors by isolates of Haemophilus by the addition of X-factor V-factor, and X+V factor discs to inoculated TSA plates.

### INSTRUCTION FOR USE

Either streak, inoculate or surface spread the test inoculum aseptically on the plate. Alternatively, these plates can also be used as settle plates for environmental monitoring.

### QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light amber colour, clear to slightly opalescent gel.
Quantity of Medium	:	30 $\pm$ 2 ml of medium in 90 mm plates.
pH (at 25°C)	:	7.3 $\pm$ 0.2
Dose of irradiation:	:	15-25 kGy
Sterility Check	:	Passes release criteria



## INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Staphylococcus aureus	6538	50-100	Luxuriant	>=70 %	30-35 °C	18-24 Hours
Escherichia coli	8739	50-100	Luxuriant	>=70 %	30-35 °C	18-24 Hours
Pseudomonas aeruginosa	9027	50-100	Luxuriant	>=70 %	30-35 °C	18-24 Hours
Salmonella typhimurium	14028	50-100	Luxuriant	>=70 %	30-35 °C	18-24 Hours
Candida albicans	10231	50-100	Luxuriant	>=70 %	30-35 °C	24 -48 Hours
Candida albicans	10231	50-100	Luxuriant	>=70 %	20-25 °C	48 -72 Hours
*Aspergillus brasiliensis	16404	10-100	Luxuriant	>=70 %	30-35 °C	48-72 Hours
*Aspergillus brasiliensis	16404	10-100	Luxuriant	>=70 %	20-25 °C	72-120 Hours

\*Formerly known as Aspergillus niger

## PACKAGING:

Triplelayered packing containing 5 No. of plates with one silica gel desiccant bag packed inside it.

## STORAGE

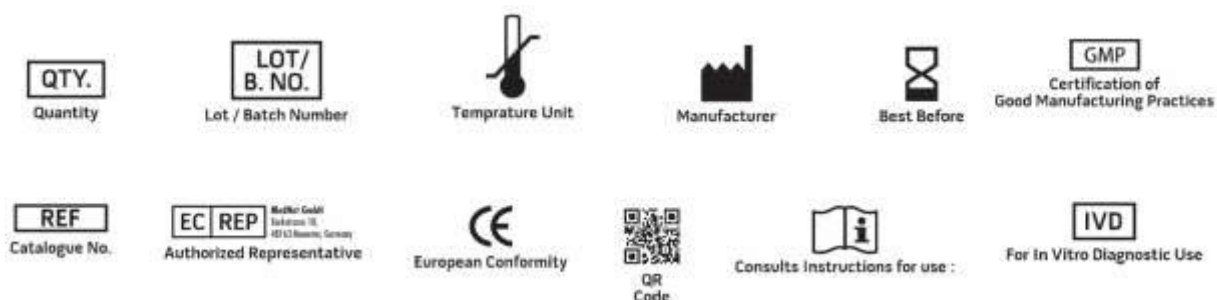
On receipt, store the plates at 15–30 °C. Avoid freezing and overheating. Do not open until ready to use. Prepared plates stored in their original sleeve wrapping until just prior to use may be inoculated up to the expiration date and incubated for recommended incubation times. Allow the medium to warm to room temperature before inoculation. Product Deterioration: Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

## DISPOSAL

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

## REFERENCES

1. The United States Pharmacopoeia / National Formulary, 2008, USP 31 The United States Pharmacopoeial Convention Inc., Rockville, MD.
2. Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.
3. Gunn B. A., Ohashi D K., Gaydos C. A., Holt E. S., 1977, J. Clin. Microbiol., 5(6) : 650.
4. Forbes B. A., Sahn A. S. and Weissfeld D. F., 1998, Bailey and 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

