



Ready Prepared Media

Technical Information

Soyabean Casein Digest Agar Plate w/ β Lactamase (Tryptone Soya Agar Plate w/ β -Lactamase)

Product Code: PM 2765

Application: Recommended as a general purpose medium for cultivation of wide variety of organisms and for inactivation of β -lactam antibiotics.

Composition**

Ingredients	Gms / Litre
Tryptone #	15.000
Soya peptone	5.000
Sodium chloride	5.000
Agar	15.000
β Lactamase mixture	330 IU/lit
Final pH (at 25°C)	7.3 $\pm$ 0.2

**Formula adjusted, standardized to suit performance parameters

Equivalent to Pancreatic digest of casein

Principle & Interpretation

Soyabean Casein Digest Agar is recommended by various pharmacopoeias and is in accordance with the microbial limit testing harmonized methodology of USP/EP/BP/JP/IP (1-5). Tryptone Soya Agar with β Lactamase mixture is used in plates for the detection and enumeration of microorganisms present on surfaces of sanitary importances and also in environmental monitoring of clean room for facilities where production of Cephalosporins is carried out. Tryptone and soya peptone provide nitrogenous compounds and other nutrients essential for microbial replication. β Lactamase inactivates β -lactam antibiotics. thus enabling the growth of resistant strains present in the environment of clean rooms where production of antibiotics is carried out.

Type of specimen

Pharmaceutical samples

Specimen Collection and Handling:

For Pharmaceutical samples follow appropriate techniques for sample collection, handling and processing as per pharmacopoeias (1-5). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium
2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.
3. It is recommended to store the plates at 24-30°C to avoid minimum condensation.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.





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Methodology

Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.

Quality Control

Appearance

Sterile Soyabean Casein Digest Agar Plate w/ β Lactamase in 90mm disposable plates with smooth surface and absence of black particles/ cracks/ bubbles

Colour

Light yellow coloured medium

Quantity of Medium

30ml of medium in 90 mm disposable plate.

Sterility Check

Passes release criteria

pH

7.10-7.50

Concentration

Concentration of Penicillinase added: 330 IU/lit of media (approximately 2,00,000 LU/lit)

Cultural Response

Growth Promotion Test of as such plates was carried out and growth was observed after incubation at 30-35°C for ≤ 3 days.

Simultaneously growth promotion test was carried out on plates which were seeded with 100 mcg/0.1ml of Benzyl Penicillin.

Recovery rate is considered 100% for bacteria growth on Soyabean Casein Digest Agar.

Organism	Inoculum (CFU)	Growth	Recovery	Growth w/ antibiotic	Recovery w/ antibiotic
Escherichia coli ATCC 25922 (00013*)	50 -100	Luxuriant	≥ 70 %	Luxuriant	≥ 70 %
Staphylococcus aureus subsp. aureus ATCC 25923 (00034*)	50 -100	Luxuriant	≥ 70 %	Luxuriant	≥ 70 %
Staphylococcus aureus subsp. aureus ATCC 29213 (00131*)	50 -100	Luxuriant	≥ 70 %	Luxuriant	≥ 70 %
Pseudomonas aeruginosa ATCC 27853 (00025*)	50 -100	Luxuriant	≥ 70 %	Luxuriant	≥ 70 %
Enterococcus faecalis ATCC 29212 (00087*)					

Key : * - Corresponding WDCM numbers

Storage and Shelf Life

On receipt store between 20-30°C Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (6,7).

Further Reading



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2. European Pharmacopoeia, 2022, 10 th volume, European Directorate for the quality of medicines & Healthcare.
3. The British Pharmacopoeia, 2022, Medicines and Healthcare products Regulatory Agency.
4. The Japanese Pharmacopoeia, 17th edition, 2016, The Ministry of Health, Labour and welfare.
5. Indian Pharmacopoeia, 2022, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare Government of India.
6. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
7. 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, 11th Edition. Vol. 1.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and developmentwork carried at **CDH** is true and accurate
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