



Ready Prepared Media

Technical Information

Soyabean Casein Digest Agar W/ Beta Lactamase II (Gamma Irradiated) (Triple pack)

Product Code: PM 2805GT

Application: A general purpose medium for cultivation of wide variety of organisms and for inactivation of cephalosporins of first, second, third and fourth generations

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	15.000
Soya peptone	5.000
Sodium chloride	5.000
Agar	15.000
Beta Lactamase II	500 IU

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Tryptone Soya Agar with beta-lactamase II 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. Casein enzymic hydrolysate and soya peptone provide nitrogenous compounds and other nutrients essential for microbial replication. Beta-lactamase added in the medium will inactivate the beta-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

Clinical samples

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines. After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :



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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.

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.

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 with beta lactamase II (Gamma Irradiated) (Triple pack) in 90mm disposable plates with smooth surface and absence of black particles/ cracks/ bubbles.

Colour

Light yellow coloured medium

Quantity of medium

30 ml of medium in 90 mm plate

Reaction

7.10 - 7.50

Dose of Irradiation (Kgy)

13.00 - 20.00

Sterility Check

Passes release criteria.

Cultural Response

Growth Promotion Test of plates without antibiotic 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 1 mcg/ml of respective antibiotics.

Recovery Rate

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

Organism	Inoculum (CFU)	Growth	Lot Value (CFU)	Incubation Temperature	Incubation Period	Recovery
Escherichia coli ATCC25922						
w/o antibiotic	50-100	luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cephalothin		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cefamandole		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cefotaxime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Ceftazidime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cefepime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Imipenem		luxuriant	35-100	30-35°C	18-24hrs	>=70%
Staphylococcus aureus ATCC 25923						
w/o antibiotic	50-100	luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cephalothin		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cefamandole		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cefotaxime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Ceftazidime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Cefepime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/ Penicillin		luxuriant	35-100	30-35°C	18-24hrs	>=70%
Staphylococcus aureus ATCC 29213						
w/o antibiotic	50-100	luxuriant	35-100	30-35°C	18-24hrs	>=70%



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w/ Penicillin Pseudomonas aeruginosa ATCC 27853		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/o antibiotic	50-100	luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/Cefotaxime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/Ceftazidime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/Cefepime		luxuriant	35-100	30-35°C	18-24hrs	>=70%
w/Imipenem		luxuriant	35-100	30-35°C	18-24hrs	>=70%
Growth promoting						
Candida albicans ATCC10231	50-100	luxuriant	35-100	30-35°C	<=5d	>=70%
Candida albicans ATCC2091	50-100	luxuriant	35-100	30-35°C	<=5d	>=70%
Aspergillus brasiliensis ATCC 16404	50-100	good	25-70	30-35°C	<=5d	50-70%
Aspergillus brasiliensis ATCC 16404	50-100	luxuriant	35-100	20-25°C	<=5d	>=70%

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 clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (6,7).

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 development work carried at **CDH** is true and accurate
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