

Technical Information

Soyabean Casein Digest Agar Plate w/ LTHTh

Product Code: PM 2691

Application: Recommended for determining the efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics, etc. It can also be used to enumerate the organisms from water insoluble products and fatty products containing preservatives or antimicrobials.

Composition**

Ingredients	Gms / Litre
Tryptone	15.000
Soya peptone	5.000
Sodium chloride	5.000
Lecithin	0.700
Polysorbate 80 (Tween 80)	5.000
Histidine	0.500
Sodium thiosulphate	0.500
Agar	15.000
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Soyabean Casein Digest Agar w/ LTHTh is used for the detection and enumeration of microorganisms for products of sanitary importance, water miscible cosmetics, products containing antimicrobials or preservatives (1) Tryptone and soya peptone provide nitrogenous compounds and other nutrients essential for microbial replication. Lecithin, polysorbate 80 (Tween 80) and thiosulphate act as neutralizing agents reported to neutralize the activity of antimicrobial agents. Lecithin and polysorbate 80 neutralizes quaternary ammonium compounds and parahydroxy benzoates. Sodium thiosulphate neutralizes mercurial, halogens, aldehydes etc. Histidine acts as a reducing agent.

Type of specimen

Swabs of containers, Equipment surfaces, Water miscible cosmetics etc.

Specimen Collection and Handling:

Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in environmental sanitation. The presence and number of microorganisms is determined by the appearance of colonies on the agar surface (2).

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.
4. Further biochemical testing is required for complete identification.

Performance and Evaluation



Ready Prepared Media

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 w/ LTHTh 90 mm disposable plates with smooth surface and absence of black particles/cracks/bubbles

Colour of medium

Light to medium Amber coloured medium

Quantity of medium

30 ml of medium in 90 mm disposable plates.

pH

7.10-7.50

Sterility Check

Passes release criteria

Cultural Response

Cultural characteristics observed after an incubation for bacterial cultures at 30-35°C for 18-24 hours and for fungal cultures at 20-25°C & 30-35°C for <=5 days.

Recovery rate

Recovery is considered 100% for bacterial growth on Soyabean Casein Digest Agar and fungal growth on Sabouraud Dextrose Agar.

Growth promoting properties

Growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than the shortest period of time specified inoculating <=100 cfu(at 30-35°C for 18-24 hours)for bacteria. Growth is also observed at 20-25°C for <=5 days for fungus.

Neutralization Test

The smaller zone of inhibition compared to SCDA indicates neutralization of quarternary ammonium compounds by this medium.

Organism	Inoculum (CFU)	Growth	Recovery	Incubation Temperature	Incubation Period
**Bacillus spizizenii ATCC 6633 (00003*)	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
<i>Escherichia coli</i> ATCC 25922 (00013*)	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
<i>Escherichia coli</i> ATCC 8739 (00012*)	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
<i>Pseudomonas</i> <i>aeruginosa</i> ATCC 27853 (00025*)	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
<i>^Pseudomonas</i> <i>paraeruginosa</i> ATCC	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs



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Ready Prepared Media

9027 (00026*)					
\$Kocuria rhizophila	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
ATCC 9341					
Salmonella Typhimurium	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
ATCC 14028 (00031*)					
Salmonella Abony	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
NCTC 6017 (00029*)					
Candida albicans ATCC	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
2091 (00055*)					
Candida albicans ATCC	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
10231 (00054*)					
#Aspergillus brasiliensis	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
ATCC 16404 (00053*)					
Candida albicans ATCC	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
2091 (00055*)					
Candida albicans ATCC	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
10231 (00054*)					
#Aspergillus brasiliensis	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
ATCC 16404 (00053*)					
Clostridium sporogenes	50 -100	luxuriant	>=70%	30 -35 °C	18 -24 hrs
ATCC 19404 (00008*)					

Key : (*) Corresponding WDCM numbers,

^ Formerly known as *Pseudomonas aeruginosa*

Formerly known as *Aspergillus niger*

** Formerly known as *Bacillus subtilis* subsp. *spizizenii*

\$ Formerly known as *Micrococcus luteus*

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. Follow established laboratory procedures in disposing of infectious materials and material preparations of this product. That comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

Further Reading

1. Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
2. Murray PR, Baron, Pfaller, and Tenover (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. 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.
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