



HiCulture™ Sterile Swabs w/0.9% Saline & second tube containing SCDM w/BCP (gamma irradiated)(Triple packed) MS5430

Intended Use:

Recommended for detection of contamination in areas of environmental monitoring.

Composition**

Ingredients	Gms / Litre
Tube 1 - 0.9% Saline	
Sodium chloride	9.000
Distilled water	1000.000 ml
Tube 1 - SCDM w/BCP	
Tryptone	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dextrose (Glucose)	2.500
Dipotassium hydrogen phosphate	2.500
Bromocresol purple	0.010
Distilled water	1000.000 ml
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Using the capped swab provided along with the Saline containing tube, collect the sample or specimen from surface. Discard the cap of the second tube and insert the capped swab with the sample in second tube containing SCDM w/BCP. Tighten the cap firmly. Observe the results after

Principle And Interpretation

Soyabean Casein Digest Medium is a nutritious medium that will support the growth of a wide variety of microorganisms, including common aerobic, facultative and anaerobic bacteria and fungi (1-4). It can also be used as a general, all purpose cultivation medium (1). When tested for the growth of organisms in presence of indicator like bromocresol purple, the colour of the medium changes from purple to yellow. With the addition of carbohydrates it can be also used for the fermentation studies of fastidious and non-fastidious organisms.

Tryptone and soya peptone provides necessary amino acids and other complex nitrogenous substances. Dextrose serves as an energy source. Sodium chloride maintains the osmotic equilibrium. Dibasic potassium phosphate acts as a buffer to control pH.

Type of specimen

Environmental monitoring- Sterility testing in manufacturing process, Pharmaceutical samples

Specimen Collection and Handling:

For pharmaceutical samples, follow appropriate techniques for sample collection and processing as per guidelines (1-4). 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. Users are recommended to validate the medium for any specific microorganisms other than mentioned in the certificate of analysis based on users unique requirement, as each lot has been tested for the organisms specified on the certificate of analysis.
2. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium

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.

Quality Control

Appearance

Each pack contains two tubes , HiCulture™ Sterile Swabs w/0.9% Saline in one tube & second tube containing HiCulture™ Sterile Swabs w/ SCDM w/BCP.

Colour

0.9% Saline : Colourless clear solution , SCDM w/BCP : Light purple to purple clear solution

Quantity of Medium

5 ml of medium in tubes

Reaction

7.10-7.50

Sterility test

Passes release criteria

Cultural response

Viability of following organisms was established for a period of 48 hours. Organisms grew luxuriantly when recovered on Tryptone Soya Agar (M290) and incubated at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Recovery
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	50 -100	luxuriant
<i>Salmonella</i> Abony NCTC 6017 (00029*)	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027 (00026*)	50 -100	luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6305	50 -100	luxuriant
<i>Staphylococcus aureus</i> subsp. aureus ATCC 6538 (00032*)	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	50 -100	luxuriant
<i>Escherichia coli</i> NCTC 9002	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 8739 (00012*)	50 -100	luxuriant
<i>Bacillus subtilis</i> subsp. spizizenii ATCC 6633 (00003*)	50 -100	luxuriant
# <i>Aspergillus brasiliensis</i> ATCC 16404 (00053*)	50 -100	luxuriant
<i>Candida albicans</i> ATCC 10231 (00054*)	50 -100	luxuriant
<i>Staphylococcus aureus</i> subsp. aureus ATCC 25923 (00034*)	50 -100	luxuriant

Candida albicans ATCC 50 -100 luxuriant
2091 (00055*)

Key : (#) Formerly known as *Aspergillus niger*, (*) Corresponding WDCM numbers

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Storage and Shelf Life

Store between 5-25°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 (3,4).

Reference

1. Forbes, Sahm and Weissfeld. 1998. Bailey & Scotts diagnostic microbiology, 10th ed. Mosby, Inc. St. Louis, Mo.
2. Fredette and Forget. 1961. The sensitivity of several media to small inocula. Extract from a paper presented at the Canadian Society of Microbiology Annual Meeting, June 12-15. Kingston, Ontario, Canada.
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.
5. MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.
6. Marshall (ed.). 1993. Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.

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