Technical Data

Candida Selective Agar Plate

MP5477

Intended Use

Recommended for isolation of various *Candida* (such as white fungi) from clinical samples.

Composition**

Ingredients	Gms / Litre
Peptonized SM powder	25.000
Malt extract	10.000
Dextrose	15.000
Selective mixture	0.500
Agar	15.000
pH after sterilization(at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

The collected sample is directly plated/ swabbed onto the lockable medium plate and incubated at 25-30°C for 24-48 hours.

Principle And Interpretation

Candidiasis is a fungal infection caused by a yeast (a type of fungus) called *Candida.* White fungus causes an infection in the lungs similar to COVID-19. *Candida* species responsible for the infection are *Candida albicans* and *Candida auris.*iIt usually affects nose, mouth, lungs and stomach or nail beds. People suffering from COVID-19, HIV/AIDS and other viral diseases, congenital bone marrow disease, cancers and untreated or irregularly treated diabetes have reduced immunity and are prone to aquire the infection.

This medium is specifically designed to promote rapid and selective growth of *Candida* strains. Peptonized SM powder and malt extract serves as a source of nitrogeneous and carbonaceous compounds, long chain amino acids, vitamins and other essential nutrients. Dextrose in the medium serves as a rich source of energy. Selective mixture suppresses the growth of mycelial fungi and inhibits bacterial flora.

Type of specimen

Clinical samples : eye lesion, nasal swabs, other site of infections

Specimen Collection and Handling

Specimens from the eye, nose, nasopharynx, and other sites of infection are usually collected with the help of sterile swab and transported to the lab by using HiFungal Tranport medium w/swab (MS5478) which contains the transport medium along with the swab. Specimen collection should be carried out by trained personnel.
After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precaution

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

Limitations

1. Individual fungi differ in their growth requirement and therefore 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
Sterile Candida Selective Agar in 90 mm disposable Lockable plates

Colour of medium
Light amber coloured medium

Quantity of medium
25 ml of medium in 90 mm disposable lockable plates.

pH
5.40-5.80

Sterility Test
Passes release criteria

Growth Promotion Test
Cultural characteristics observed after an incubation at 25-30 °C for 24-48 hours.

Cultural Response

Organism	Growth
Candida albicans ATCC 10231 (00054*)	luxuriant
Candida auris ATCC	luxuriant
Mucor racemosus ATCC 42647	none-poor
#Aspergillus brasiliensis ATCC 16404 (00053*)	none-poor
Escherichia coli ATCC 25922 (00013*)	inhibited
Staphylococcus aureus subsp. aureus ATCC 25923 (00034*)	inhibited
Pseudomonas aeruginosa ATCC 27853 (00087*)	inhibited

Key : (#) - Formerly known as *Aspergillus niger,* (*) - 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 (1,2).

Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
2. 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.

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