

Specification

Medium for the enumeration and cultivation of yeast and fungi on surfaces.

Presentation

	Packaging Details	Shelf Life	Storage
30 Contact Plates/lrd Contact Plates - Triple Wrapping with: 15 ± 2 ml	1 box with 3 x 10 plates BOPP plastic bags (triple wrapping) with stacks of 5 plates inside. Every pack exhibits a irradiation indicator stacked on the side of the bag (8-14 KGy). LATERAL LABELLING LOCKABLE PETRI LID	8 months	15-25 °C

Composition

Composition (g/l):	
D(+)-Glucose.....	40.0
Peptone from casein	5.00
Meat Peptone.....	5.00
Agar.....	15.0
Chloramphenicol.....	0.05

Description /Technique

Description:

This culture medium differs from the classical Sabouraud Agar only by the addition of chloramphenicol. This thermostable antibiotic has a broad antibacterial spectrum which ensures the selective isolation of fungi from bacteria highly contaminated samples.

Technique

Contact plates are used in the microbiological control of disinfection and cleaning of surfaces. It acts simultaneously as a sampler and incubation culture medium without the need for any other intermediate steps.

The plates come in a form appropriate for this function and can be used with different culture media depending on the type of microbe that needs to be controlled. On average the plates provide a contact surface of approximately 25 cm².

To use, remove the cover and gently press the culture medium on the surface to be controlled, ensuring contact between the two surfaces. The Contact plate is removed and covered with the lid to prevent air contamination. It is advisable that the lid is secured with adhesive tape and the bottom labelled with the sampling data (place, date and time).

If the sample surfaces are rough, the contact plates will not make good contact, even when the pressure is increased. In these cases it is advisable to delineate an sample surface area of 25 cm squared and rub this area vigorously with a wet sterile swab and then rub the swab over the Contact plate.

If verifying the effectiveness of a cleaning or disinfection process, contact plates should be used within two hours after the end of the process, ensuring that the sample surface is dry. It is advisable to always include positive controls, sampling the area before disinfection or dirty areas beside the disinfected area.

The technician will determine the frequency of sampling and disinfection according to performance criteria. Apply the agar directly onto surface to be monitored ensuring that the pressure is distributed over the whole plate for 10 seconds. Clean the surface where the sample was collected in order to remove any traces of agar.

The inoculated plates are incubated at 32-35 ° C for 24-48 hours and examined daily. For fungi, the incubation is carried out at 22-25 ° C for 5 days and examined daily.

The lid can be used **locking the plate** in two positions after taking the sample:

- **AIR:** lid closed, but leaving certain movement, for AEROBIC and ANAEROBIC incubations.
- **CLOSE:** lid completely closed. Better for transport, avoiding risk of contamination due to its possible opening during the transport.

Attention: Plates are used for monitoring the microbiological contamination of surface and air inside cleanrooms, isolators, RABS, food industries and hospitals. The double/triple irradiated wrapping ensures that the package itself doesn't contaminate the environment as the first wrapper is removed just before entering the clean area.

Wrapping resistant to hydrogen peroxide vapors penetration.

Quality control**Physical/Chemical control**

Color : Straw-coloured yellow pH: 5.6 ± 0.2 at 25°C

Microbiological control

Spiral Spreading: Practical range 100 ± 20 CFU. min. 50 CFU (productivity) / 10⁴-10⁶ CFU (selectivity).

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 25 ± 2,5 °C and 30-35°C. Reading at 72 hours for bacteria and 3-5 days for yeast and moulds.

Microbiological control according to ISO 11133:2014/A1:2018.

Microorganism

Aspergillus brasiliensis ATCC® 16404, WDCM 00053

Escherichia coli ATCC® 8739, WDCM 00012

S. cerevisiae ATCC® 9763, WDCM 00058

Bacillus subtilis ATCC® 6633, WDCM 00003

Candida albicans ATCC® 10231, WDCM 00054 (20-25°C)

Candida albicans ATCC® 10231, WDCM 00054 (30-35°C)

Growth

Good (≥50 %)

Inhibited

Good (≥50 %)

Inhibited

Good (≥50 %)

Good (≥50 %)

Sterility control

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

Bibliography

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