

Specification

General purpose medium for isolation and culture of microorganisms with neutralisers.

Presentation

	Packaging Details	Shelf Life	Storage
80 Plates /Irradiated Contact Plates - Triple Wrapping with: 15 ± 2 ml	1 box with 8 RD-PACK with 10 contact plates/pack; and double wrapping cellophane. Every pack exhibits an irradiation indicator (8-14kGy).	4 months	2-14 °C

Composition

Composition (g/l):	
Peptone from casein	15.00
Soya peptone.....	5.00
Sodium chloride.....	5.00
Histidin.....	1.00
Lecithine.....	0.70
Polysorbate 80.....	5.00
Sodium Thiosulfate.....	0.50
Agar.....	15.00

Description /Technique

Description:

it is the classical media for microbiological examination of non-sterile products according to Pharmacopeial Harmonised Methods. The addition of the neutralizing agents TLHTh (Tween 80 - Lecithin - Histidine - Sodium Thiosulphate) may inactivate a variety of disinfectants.

- * The combination of lecithin, polysorbate 80 and histidine neutralizes aldehydes and phenolic compounds.
- * The combination of lecithin and polysorbate 80 neutralizes the quaternary ammonium compounds.
- * The polysorbate 80 neutralizes hexachlorophene and mercurial derivatives.
- * Sodium thiosulphate neutralizes halogen compounds.
- * Lecithin neutralizes chlorhexidine.
- * Histidine neutralizes formaldehyde.

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). The inoculated plates are incubated at 30-35 °C for 24-72 h (bacteria) and 3-5 days for fungi (yeast & molds). Examined daily.

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.

Quality control

Physical/Chemical control

Color : Straw-coloured yellow pH: 7.3 ± 0.2 at 25°C

Microbiological control

Growth Promotion Test 50-100 CFU according to harmonized Pharmacopoeia monographs (EP) and test methods & ISO 11133:2014/A1:2018
Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30-35-37 °C. Read after 18-24 h to 72 h for bacteria and 3-5 days for fungi.

Microorganism

Growth

<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good (≥70%)
<i>Staphylococcus aureus</i> ATCC® 6538, WDCM 00032	Good (≥70%)
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Good (≥70%)
<i>Candida albicans</i> ATCC® 10231, WDCM 00054	Good (≥70%)
<i>Ps. aeruginosa</i> ATCC® 9027, WDCM 00026	Good (≥70%)
<i>Salmonella typhimurium</i> ATCC® 14028, WDCM 00031	Good (≥70%)
<i>Aspergillus brasiliensis</i> ATCC® 16404, WDCM 00053	Good (≥70%)
<i>L. monocytogenes</i> ATCC® 13932, WDCM 00021	Good (≥70%)
<i>Bacillus cereus</i> ATCC® 11778, WDCM 00001	Good (≥70%)
<i>Enterococcus faecalis</i> ATCC® 29212, WDCM 00087	Good (≥70%)
<i>Clostridium perfringens</i> ATCC® 13124, WDCM 00007, NCTC® 8237	Good (≥70%)
<i>Clostridium sporogenes</i> ATCC® 19404, WDCM 00008	Good (≥70%)
<i>Stph. aureus</i> ATCC® 25923, WDCM 00034	Good (≥70%)
<i>Escherichia coli</i> ATCC® 11775, WDCM 00090	Good (≥70%)

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.

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