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SURFACE SAMPLE COLLECTION MEDIUM

BacterContactTM Pro Tryptic Soy Agar + LT + Cephase

Contact™ Pro : Soy Agar + LT + Co

Ready-to-use medium on 60mm plates for surface microbiological sampling with the addition of a neutralizer to neutralize surface disinfectants



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1. INTENDED USE

BacterContactTM Pro Tryptic Soy Agar + LT + Cephase is a basic nutrient medium used for culturing a variety of microorganisms in surface microbiological sampling, supplemented with neutralizing agents to inactivate surface disinfectants.

The packaging with semi-permeable Cellophane film helps balance the humidity of the environment during storage.

2. PRINCIPLES

BacterContactTM Pro Tryptic Soy Agar + LT + Cephase: Pancreatic Digest of Casein is a type of peptide containing amino acids extracted from milk protein, facilitating bacterial growth. Peptic Digest of Soybean Meal is a peptide derived from soybeans, providing nutrients and growth factors. Sodium Chloride creates a saline environment to maintain pH balance inside and outside the bacteria. Lecithin (L) and Tween 80 (T) function to neutralize residual disinfectant chemicals. The combination of a broad-spectrum, specific cephalosporinase and penicillinase helps inactivate β-lactam antibiotics, such as penicillins and cephalosporins, including third- and fourth-generation cephalosporins, as well as carbapenems.

3. TYPICAL COMPOSITION

For 1 liter of medium

Casein Peptone (pancreatic)	15,0 g
Soya Peptone (papainic)	5,0 g
Sodium Choloride	5,0 g
Polysorbate (Tween®) 80	5,0 ml
Lecithin	0,7 g
Agar	15,0 g
Cephalosporinase	1000 IU
Penicillinase	10000 IU

pH of the ready-to-use media at 25 °C: 7.3 ± 0.2

4. PREPARATION

The environmental plates are ready-to-use, no preparation required.

5. INSTRUCTIONS FOR USE

- Prepare the surface to be tested: Clean the surface to be tested using a 70% alcohol solution or another cleaning solution. Then, wait for the surface to dry completely.
- Open the pre-packaged BacterContact plates: Ensure that the packaging of the plates is not torn or damaged before opening.
- Place the Contact plate on the surface to be tested: Press the Rodac plate onto the surface to be tested. The recommended contact time between the plate and the test surface is 10 seconds with a pressing force of 500g.



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- Seal the Rodac plate: Make sure that the lid of the Rodac plate is tightly closed. Wipe the surface again with 70% alcohol.
- Evaluation of Results: Incubate under the following conditions.
 - 30 35 °C for 72 ± 6 hours (NF EN ISO 21149, NF EN ISO 18415)
 - 20 25 °C for 3 to 5 days for Total Microbial Count (Pharmacopoeia).

6. RESULTS

After incubation for the required period, typically 3–5 days, the plates are examined for the presence of microorganisms. The results are evaluated by counting the number of microbial colonies on the plates.

7. QUALITY CONTROL

BacterLab ensures the quality of each product batch by testing with ATCC reference strains.

Microorganisms	Incubation conditions	Expected results
P. aeruginosa ATCC 9027		
S. aureus ATCC 25923	20-24 hours of incubation at $30-35$ °C	$P_R \ge 70 \%$
E. coli ATCC 35218		
C. albicans ATCC 10231	72 hours of incubation at 20 – 25°C	P _R ≥ 50 %
A. brasiliensis ATCC 16404	/2 nours of incubation at 20 – 23 C	

8. STORAGE AND TRANSPORT CONDITIONS

- Storage: $2 8^{\circ}$ C.
- Transportation: Ambient temperature.

9. PACKAGING

- Packaging: 10 plates/ box or as per customer request.

10. SHELF LIFE

- Expiration Date: 09 months from the manufacturing date.

11. BIBLIOGRAPHY

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