BacterLab Division

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SURFACE SAMPLE COLLECTION MEDIUM

BacterContact™ Plate Count Agar

Ready-to-use medium on 60mm plates for surface microbiological sampling

Code: 12010

1. INTENDED USE

BacterContact™ Plate Count Agar is a basic nutrient medium used for culturing a wide range of microorganisms in surface microbiological sampling.

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

2. PRINCIPLES

BacterContact™ Plate Count Agar is the nutrients are provided by tryptone, vitamins from yeast extract, and glucose, which is used as an energy source to support the growth of most bacteria.

3. TYPICAL COMPOSITION

For 1 liter of medium

Trypton	5,0 g
Yeast extract	2,5 g
Glucose	1,0 g
Agar	15,0 g

pH of the ready-to-use media at 25 °C: 7 ± 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.
- 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 checked for the presence of microorganisms. The results are evaluated by counting the number of colonies present 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
S. aureus ATCC 25923	20 – 24 hours of incubation at 30 – 35 °C	$P_R \geq 70$ %
E. coli ATCC 35218		$P_R \geq 70$ %
C. albicans ATCC 10231		$P_R \geq 50$ %
A. brasilliensis ATCC 16404	72 hours of incubation at 20 – 25 °C	$P_R \geq 50$ %

8. STORAGE AND TRANSPORT CONDITIONS

- Storage: 2 – 8°C.
- Transportation: Ambient temperature.

9. PACKAGING

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

10. SHELF LIFE

- Expiration Date: 06 months from the manufacturing date.

11. BIBLIOGRAPHY

- Solabia Group. *Plate Count Agar*. Biokar Diagnostics. Retrieved from: *https://www.solabia.com/biokar-diagnostics/product/plate-count-agar-pca/?documentation=1889&_wpnonce=0a499890a6*