

BacterLab Division



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SURFACE SAMPLE COLLECTION MEDIUM

BacterContact™ VRBD Agar

Ready-to-use medium on 60mm plates for detection and quantification of Enterobacteriaceae from food, animal feed, and other materials

Code: 12012

BacterContact™
VRBD Agar

1. INTENDED USE

BacterContact™ VRBD Agar for detection and quantification of *Enterobacteriaceae* from food, animal feed, and other materials.

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

2. PRINCIPLES

BacterContact™ VRBD Agar: Pancreatic Digest of Gelatin and Yeast Extract provide a source of carbon and essential minerals that facilitate microbial growth; dextrose provides an energy source for growth; Bile Salts and Crystal Violet inhibit Gram-positive bacteria; Neutral Red is a pH indicator for the medium. Sodium Chloride creates a saline environment to maintain the pH balance inside and outside the bacteria.

3. TYPICAL COMPOSITION

For 1 liter of medium

Pancreatic digest of gelatin	7,0 g
Yeast extract	3,0 g
Bile salts	1,5 g
Sodium chloride	5,0 g
Dextrose	10,0 g
Neutral red	0,03 g
Crystal violet	0,002 g
Agar	13,0 g

pH of the ready-to-use media at 25 °C: $7,3 \pm 0,2$

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 18–24 hours, 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
<i>S. typhimurium</i> ATCC 14028	18 – 24 hours of incubation at 35 – 37 °C	$P_R \geq 70 \%$
<i>E. coli</i> ATCC 35218		
<i>P. aeruginosa</i> ATCC 9027		

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. *VRBD Agar*. Biokar Diagnostics. Retrieved from: https://www.solabia.com/biokar-diagnostics/product/vrbg-agar/?documentation=2280&_wpnonce=0a499890a6