

BacterLab Division



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## **CHROMOGENIC AGAR MEDIUM**

### **BacterChrom™ Vibrio**

Ready-to-use chromogenic medium on 90mm plates for the isolation and detection of *V. cholerae*, *V. vulnificus* and *V. parahaemolyticus*

**Code: 01028**



## 1. INTENDED USE

**BacterChrom™ Vibrio** is a chromogenic culture medium designed for the isolation and detection of *Vibrio parahaemolyticus*, *Vibrio vulnificus*, and *Vibrio cholerae*. This medium supports the identification of these pathogenic species in environmental, seafood, and surface samples. The medium is particularly valuable for monitoring *Vibrio* species in public health and environmental safety contexts, assisting in the prevention of seafood-borne illnesses.

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

## 2. PRINCIPLES

**BacterChrom™ Vibrio** incorporates chromogenic substrates that react with specific enzymatic activities of target organisms, producing characteristic colony colors for differentiation. The selective agents in the medium inhibit non-target flora, ensuring specificity and enhancing detection accuracy. This simplifies the visual identification of *Vibrio* species in complex sample matrices.

## 3. TYPICAL COMPOSITION

*For 1 liter of medium*

Peptone and yeast extract	8,0 g
Chromogenic mix	0,3 g
Salt	51,4 g
Agar	15,0 g

*pH of the ready-to-use medium at 25°C: 9,0 ± 0,2*

## 4. PREPARATION

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

## 5. INSTRUCTIONS FOR USE

- Allow to warm to room temperature before inoculation, dry the plates in an incubator with the covers partially removed.
- Direct streaking sample onto the plate
- Incubate at 37 °C for 24 hours in aerobic conditions.

## 6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
<i>V. parahaemolyticus</i>	mauve
<i>V. vulnificus</i> / <i>V. cholerae</i>	green blue to turquoise blue
<i>V. alginolyticus</i>	creamy

## 7. QUALITY CONTROL

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

Reference strains	Incubation conditions	Expected results
<i>V. vulnificus</i> ATCC 27562	Incubate for 24 hours at 35 – 37 °C	Green colonies
<i>V. parahaemolyticus</i> ATCC 17802		Mauve colonies
<i>V. alginolyticus</i> ATCC 33839		Creamy colonies
<i>E. coli</i> ATCC 35218		Inhibited
<i>S. aureus</i> ATCC 25923		Inhibited

## 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: 03 months from the manufacturing date.

## 11. BIBLIOGRAPHY

- CHROMagar, 2021. *CHROMagar™ Technical Data Sheet: NT-EXT-017 NOTICE V8.1*. Available at: <https://www.chromagar.com/wp-content/uploads/2021/12/NT-EXT-017-NOTICE-V8.1.pdf>