

Chromogenic Vibrio Agar

Cat No: **111002**

Intended Use

Chromogenic Vibrio Agar is a selective and differential chromogenic medium intended for the isolation and presumptive identification of *Vibrio* species, particularly *Vibrio cholerae*, *Vibrio parahaemolyticus*, and *Vibrio vulnificus*, from clinical, environmental, and food samples. The medium contains selective agents that inhibit the growth of competing flora, especially Gram-positive and non-*Vibrio* organisms, while chromogenic substrates enable differentiation of *Vibrio* species based on colony color. This allows for rapid, direct detection and distinction of pathogenic *Vibrio* species, supporting surveillance, outbreak investigations, and routine microbial monitoring in public health and food safety settings.

Principle

The medium includes yeast extract and peptones, which serve as sources of nitrogen, essential B-group vitamins, minerals, and amino acids needed for bacterial growth. Sucrose, glucose, and lactose act as fermentable carbohydrates, providing carbon and energy. Sodium chloride ensures the presence of essential electrolytes for nutrient transport and osmotic balance. Selective agents such as sodium citrate, sodium thiosulfate, and sodium cholate help suppress Gram-positive bacteria. A chromogenic substrate is incorporated to allow for the detection of *Vibrio* species through a visible color change in the colonies.

Storage

Recommended storage conditions: 2 to 8 °C. Store in cool dry place
 Recommended shipping conditions: 2 to 8 °C.

Production Standard

The formulation is prepared according to the recommendations of the current European, United States, and China Pharmacopoeia.

Precautions

1. The product may secrete water when exposed to temperature changes between low and room temperature, which is normal. Allow it to reach room temperature before use and, if possible, pre-dry it in a sterile drying oven.
2. Handle the plates with sterile gloves to prevent contamination during use.
3. Store the plates in a cool, dry place away from direct sunlight to maintain their integrity.
4. Avoid opening the plates until they are ready to be used in the sampling area to prevent airborne contamination.
5. Ensure the plates are used within their expiration date to guarantee accurate results.
6. Dispose of used plates according to biohazard waste protocols to prevent contamination and ensure safety.

Quality Control

The following were incubated at 35±2°C for 24-48 hours. The results are as follows:

Test Strains	Growth Results	Colony Characteristics
<i>Vibrio parahaemolyticus</i> ATCC 17802	Good	Green-blue colonies
<i>Vibrio cholerae</i> ATCC 14034	Good	Rose-red colonies
<i>Vibrio vulnificus</i> ATCC 27562	Good	Pink-rose colonies
<i>Vibrio alginolyticus</i> ATCC 17749	Good	Colourless colonies

Product Content

Product Content	Cat No.	Size
Chromogenic Vibrio Agar	111002	10 plates/bag; 200 plates/case

Composition

Glucose	1.0 g
Chromogenic mixture	2.49 g
Peptone	10.0 g
Sodium cholate	3.0 g
Sodium thiosulfate	10.0 g
Yeast extract	3.0 g
Lactose	0.1 g
Sodium chloride	10.0 g
Sodium citrate	10.0 g
Sucrose	20.0 g
Selective agent	5.0 g
Bacteriological agar	15.0 g
Water	1000ml
Final pH (at 25°C)	8.6 ± 0.2

Shelf Life

Shelf life: 3 months from date of manufacture

Packaging

90mm x 10 plates per bag; 200 plates/case

Disposal

Please adhere to the respective regulations for the disposal of used culture medium (e.g., autoclave for 30 minutes at 121 °C)

Specially manufactured for:

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