



Chromatic™ Vibrio

Chromogenic medium for detection of enteropathogenic *Vibrio* spp, from clinical and nonclinical samples.

DESCRIPTION

Chromatic™ Vibrio is a chromogenic medium used for the selective isolation and cultivation of vibrios, including *V. cholerae*, *V. parahaemolyticus*, *V. vulnificus* and *V. alginolyticus* from stool specimens, food, water and environmental samples.

TYPICAL FORMULA

	(g/l)
Peptone	15.0
Yeast Extract	3.0
Salts	59.1
Chromogenic Mix	0.3
Agar	15.0
Final pH 8.4 ± 0.2 at 25°C	

METHOD PRINCIPLE

Peptone and yeast extract provide amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Salts included in the medium have the dual effect of stimulating vibrios growth and suppressing Gram-positive bacteria and coliforms. The alkaline pH is also inhibitory for most contaminant microorganisms while enhances the recovery of *V. cholerae*. Chromogenic mix allows to identify the *Vibrio* genus on the basis of the color and morphology of the colonies. Agar is the solidifying agent.

PREPARATION

Dehydrated medium Suspend 92.4 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. DO NOT AUTOCLAVE.

TEST PROCEDURE

Inoculate the medium by direct streaking or spread plating.
Incubate aerobically at 35 ± 2°C for 18-24 hours.

NB. Heavy inoculation is recommended. Swabs containing specimen material should be transported to the laboratory in Cary Blair Transport Medium (ref. 470290) if a delay in reaching the laboratory is anticipated. Specimens for cultivation of vibrios should not be frozen.

INTERPRETING RESULTS

After incubation observe the color of the colonies and interpret the results as indicated in the ID table. Confirm typical colonies with proper biochemical tests.

ID Table.

Microorganism	Typical colony color
<i>V. parahaemolyticus</i>	Mauve
<i>V. vulnificus</i> / <i>V. cholerae</i>	Green blue to turquoise blue
<i>V. alginolyticus</i>	Colorless

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, light beige to green beige.
Prepared medium: clear to slightly opalescent, green.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store prepared plates at 2-8°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 2 years.
Ready-to-use plates: 4 months.

QUALITY CONTROL

Plates are inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity: 50-100 CFU.

Inoculum for selectivity: 10⁴-10⁶ CFU.

Incubation conditions: aerobically at 35 ± 2°C for 18-24 hours.

QC Table.

Microorganism		Growth	Specification
<i>Vibrio vulnificus</i>	ATCC® 27562	Good	Green colonies
<i>Vibrio parahaemolyticus</i>	ATCC® 17802	Good	Mauve colonies
<i>Vibrio alginolyticus</i>	ATCC® 17749	Good	Creamy colonies
<i>Escherichia coli</i>	ATCC® 25922	Inhibited	---
<i>Staphylococcus aureus</i>	ATCC® 25923	Inhibited	---

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *in vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE








Disposal of waste must be carried out according to national and local regulations in force.

BIBLIOGRAPHY

1. American Public Health Association (1992): compendium of methods for the microbiological examination of foods, 3rd edition.
2. Dewitt, W.E., E.J. Gangarosa, I. Huq, and A. Zarifi (1971) Holding media for the transport of *Vibrio cholerae* from field to laboratory. Am. J. Trop. Med. Hyg. 20:685-688.
3. Kobayashi, T., S. Enomoto, R. Sakazaki, and S. Kuwahara (1963) A new selective medium for pathogenic vibrios: T.C.B.S. Agar (Modified Nakanishi's Agar). Jap. J. Bacteriol. 18:387-391.

PRESENTATION		Contents	Ref.
Chromatic™ Vibrio	90 mm ready-to-use plates	20 plates	11633
Chromatic™ Vibrio	Dehydrated medium	500 g of powder	610633

TABLE OF SYMBOLS

LOT Batch code	IVD <i>In Vitro</i> Diagnostic Medical Device	 Manufacturer	 Use by	 Fragile, handle with care
REF Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult Instruction For Use	 Do not reuse



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