

PRODUCT INFORMATION

Vibrio Chromogenic Agar

Cat. No. V22-107

DESCRIPTION

Vibrio Chromogenic Agar is recommended for the selective isolation and differentiation of Vibrio species based on colony colors, due to the enzymatic activities of β -galactosidase and β -glucosidase.

This medium is designed for the development and differentiation of 3 types of *Vibrio* depending on the enzyme activity of each strain. β -glucosidase activity will appear as blue-green colonies, as in the case of *V. parahaemoliticus*. The activity of β -galactosidase enzyme will show red or pink colonies in the case of *V. cholerae*. And finally, the yellowish-white colonies will be *V. alginolyticus*, which has β -galactosidase, but is not expressed due to the high concentration of sugars. The alkaline pH of the medium enhances the recovery of *V. cholerae*.

FORMULA (g/L)

Glucose	1.0 g	Bacteriological agar	15.0 g
Chromogenic mixture	2.49 g	Lactose	0.1 g
Peptone	10.0 g	Sodium Chloride	10.0 g
Sodium Cholate	3.0 g	Sodium Citrate	10.0 g
Sodium Thiosulfate	10.0 g	Sucrose	20.0 g
Yeast Extract	3.0 g	Special bilis	5.0 g

Final pH: 8.6 \pm 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 90 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. DO NOT AUTOCLAVE.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and beige.
2. Visually the prepared medium is amber.
3. Expected cultural response after 24-48 hours at 35 °C.

ORGANISM	RESULT
<i>Vibrio cholerae</i> ATCC 14034	Good Growth – Pink-rose colony
<i>Vibrio alginolyticus</i> ATCC 17749	Good Growth – Colorless colony
<i>Vibrio parahaemolyticus</i> ATCC 17802	Good Growth – Green-blue colony
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Vibrio vulnificus</i> ATCC 27562	Good Growth – Pink-rose colony

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.