CHROMagar™ Vibrio

For isolation and detection of *V.parahaemolyticus, V.vulnificus* and *V.cholerae*

CHROMagar
The Chromogenic Media Pioneer

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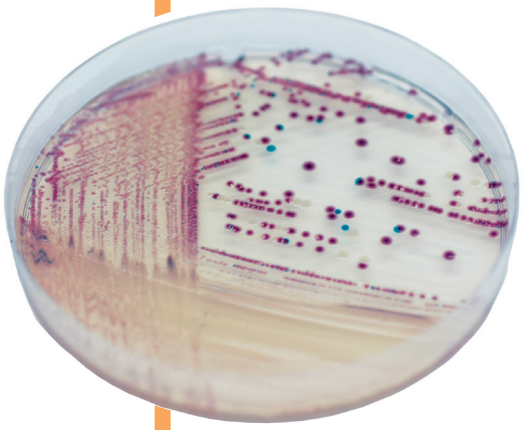

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Background

Naturally present on marine plants and animals, *Vibrio* genus counts over 20 species among which four represent a serious public health hazard.

- ***V.cholerae*** often cause cholera through water and food contamination. Emerging cyclically, cholera is considered to be endemic in many countries as a virulent disease causing severe diarrhea and dehydration. The number of cholera cases reported to the W.H.O. in 2006 rose dramatically, reaching the level of the 1990s. Around 240,000 cases were reported from 52 countries, including about 6300 deaths.
- ***V.parahaemolyticus and V.vulnificus*** are largely involved in foodborne diseases from seafood, causing septicaemia, wound infections, and gastroenteritis. CDC reports an estimated 47% increase of *Vibrio* infections in the US (1996-1998 to 2008), about 8000 illnesses yearly. *Vibrio* infections are also commonly reported in areas of Asia and Oceania, linked to the high consumption of seafood. Despite the fact that *V. parahaemolyticus* is the most commonly reported species causing infection, *V.vunificus* has become increasingly prevalent and is now associated with 94% of reported deaths.
- ***V.alginolyticus*** is less common but is a pathogen concern for oyster producers since it can lead to major production losses. If detected, it can prevent contamination of other oyster production sites.

Plate Reading

- *V.parahaemolyticus*
  → mauve
- *V.vulnificus / V.cholerae*
  → green blue to turquoise blue
- *V.alginolyticus*
  → colourless

Medium Performance

1. **DIFFERENT CLEAR AND INTENSE COLONY COLOURS**
   thanks to its powerful chromogenic technology. Easy reading especially when compared to the conventional TCBS medium based on sucrose fermentation revealed with a pH indicator.
2. **PRACTICAL**
   V.alginolyticus remains colourless in CHROMagar™ Vibrio, avoiding any interference with the detection of other species.
3. **CLEAR DIFFERENTIATION**
   between *V.parahaemolyticus* and *V.vulnificus*, both sucrose (-) on TCBS.
4. **POWERFUL**
   Unrivalled medium in the chromogenic media field.
5. **EXELLENT RECOVERY**
   of *Vibrio,* greater than with TCBS agar, even if using an enrichment broth.
   Fewer false negatives than with TCBS agar.

Medium Description

Powder Base	Total ..... 74.7 g/L Agar ..... 15.0 Peptone & Yeast extract ..... 8.0 Salts ..... 51.4 Chromogenic mix ..... 0.3 Storage at 15/30°C - pH: 9.0 ± 0.2 Shelf Life ..... 3 years

Usual Samples	environmental, water samples, sea food, surfaces.
Procedure	Direct streaking or after an appropriate enrichment step of the sample. Incubation 24h at 37°C. Aerobic conditions.
Scientific Publications on this product: available on www.CHROMagar.com For detailed preparation procedure, please refer to our IFU.	

Quality Control Strains

V. vulnificus JCM 3725	green
V. parahaemolyticus ATCC® 33845	mauve
V. alginolyticus ATCC® 33839	colourless
S. aureus ATCC® 25923	inhibited
E. coli ATCC® 25922	inhibited

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LF-EXT-008

Order References

Please use these product references when contacting your local distributor:

1000 ml pack VB910
5000 ml pack VB912
25 L pack VB913-25
Bulk ..... on request

CHROMagar Microbiology
4 place du 18 juin 1940
75006 PARIS

Find your nearest distributor on
www.CHROMagar.com/contact