

inspired By Nature



chromID™ Vibrio

An eyeful of color !

Chromogenic medium for the selective isolation of Vibrios
and the presumptive identification of *V. cholerae* and *V. parahaemolyticus*



Selective chromogenic medium for the isolation of most Vibrio species

chromID™ Vibrio Agar is intended for:

- The analysis of products for human consumption and the feeding of animals,
- The monitoring of environmental samples in the area of food production and food handling.

It particularly enables the presumptive identification of *V. parahaemolyticus* and *V. cholerae*.

Method:

chromID™ Vibrio Agar can be used in addition to the conventional Thiosulfate-Citrate-Bile-Sucrose (TCBS) agar or instead of the TCBS, after an enrichment in Alkaline Saline Peptone Water (ASPW).

Reading and confirmation:

After 24 hours incubation, characteristic colonies are identified by biochemical and/or immunological tests.

ID32E or VITEK® 2 Compact GN can be used for a direct identification of isolated colonies (or after sub-culture).

An innovative formulation:

chromID™ Vibrio includes a specific chromogenic substrate which reveals distinct enzyme activities and enables the presumptive identification of each species through the production of colonies in colours.

- Typical colonies of *V. cholerae* are bluish-green to green (colonies of *V. vulnificus* are bluish-green to blue)
- Typical colonies of *V. parahaemolyticus* are pink



Cost, time and labor saving:

Traditional methods become costly and time-consuming when more than one suspect colony is present. Many other bacteria easily grow on the TCBS and may limit the detection of Vibrios colonies.

Thanks to the chromID Vibrio highest sensitivity and specificity, a significant reduction of unnecessary confirmations is obtained.

Standard methods*:

- ISO/TS 21872-1: 2007, Nordic Committee on Food Analysis (NMKL) No. 156 and USFDA Bacteriological Analytical Method (BAM) – Chapter 9, are culture-based procedures which use two consecutive enrichments in ASPW followed by subsequent isolation of colonies on TCBS.

The ISO/TS recommends to add another selective plating medium chosen by the laboratory and the USFDA, to add a modified Cellobiose polymyxin colistin (mCPC) agar or Cellobiose colistin (CC) agar.

The Chinese National Standard Method uses a 3% NaCl ASPW enrichment followed by isolation on TCBS and a chromogenic media, and a confirmation using API & VITEK biochemical tests.

- * - ISO/TS 21872-1: 2007 « Microbiology of food and animal feeding stuffs – horizontal method for the detection of potentially enteropathogenic Vibrio spp. – part 1: detection of Vibrio parahaemolyticus and Vibrio cholerae »
- Nordic Committee on Food Analysis (NMKL) No. 156 – Pathogenic Vibrio spp. Detection & Enumeration in Food: Detection of Vibrio parahaemolyticus, Vibrio cholerae, Vibrio vulnificus and Vibrio alginolyticus in foods
- USFDA Bacteriological Analytical Method (BAM) – Chapter 9: Vibrio: Detection of Vibrio cholerae and Vibrio parahaemolyticus
- Chinese National Standard Method - GB/T 4789.7-2008 « Microbiological examination of Food Hygiene- Examination of Vibrio parahaemolyticus »

Microbiological Criteria:

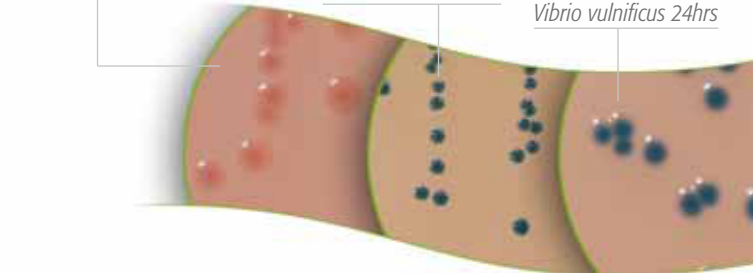
The actual European regulation (CE n°2073/2005 - §11) recommends, for *V. vulnificus* and *parahaemolyticus* in seafood, that codes of practice should be established to ensure that good hygiene practice has been applied.

- IAFP Asia Pacific- Korea 2009- Evaluation of chromID Vibrio, a New Chromogenic Medium, for Isolation and Presumptive Identification of *Vibrio parahaemolyticus* from seafood 6
Shen Biao, Wang Yunqian, Xu Junhui, Zhou Xiangyang, Hu Xinjuan (Zhoushan Entry-Exit Inspection and Quarantine Bureau of The People's Republic of China)
- Chatzidakis-Livanis, M., Hubbard, M.A., Gordon, K., Harwood, V.J. and Wright, A.C. 2006. Genetic Distinctions among Clinical and Environmental Strains of *Vibrio vulnificus*. Applied and Environmental Microbiology. vol. 72, no. 9, 6136-6141.

bioMérieux offers an innovative chromogenic media for Vibrios:

ChromID Vibrio	VITEK® 2 GN
20 plates ref. 43761	20 cards ref. 21314
ID 32 E	DiversiLab® Salmonella Kit
25 galleries ref. 32400	(includes also Vibrios)
API® 20E	48 tests ref. 270625
25 galleries ref. 20100	DiversiLab Bacterial Gram-Negative Kit
	48 tests ref. 270633

Vibrio parahaemolyticus 24hrs *Vibrio cholerae* 24hrs *Vibrio vulnificus* 24hrs



bioMérieux Industry
595 Anglum Road
Hazelwood, MO 63042
Tel: (800) 634 7656
Fax: (314) 731 8678

www.biomerieux-usa.com

