

Specification

Liquid culture medium for the pre-enrichment and selective enrichment of potentially enteropathogenic vibrios, in food samples, according to ISO.

Presentation

20 Tubes
Tube 16 x 113 mm
with: 10 ± 0,2 ml

Packaging Details

1 box with 20 tubes, 16x113 mm glass tubes, ink
labelled and metal-Non injectable cap.

Shelf Life

12 months

Storage

2-25°C

Composition

Composition (g/l):

Peptone..... 20.00

Sodium chloride..... 20.00

Description /Technique

Technical specifications ISO 21872 in parts 1 and 2 describe this liquid culture medium for use in the pre-enrichment and selective enrichment of potentially enteropathogenic vibrios, from food samples.

For pre-enrichment, the sample diluted in the medium is incubated at 37° for 6 ± 1 hours and from this culture the selective enrichment medium is inoculated and incubated at the same temperature for 18 ± 1 hours before proceeding to isolation on selective media.

If the presence of *V.parahaemolyticus* or *V.cholerae* is suspected then the pre-enrichment is carried out in the same manner only if the sample is a frozen food sample. With fresh foods the incubation must be carried out at 41,5°C, always for 6 ± 1 hours. Similarly the selective enrichment is carried out at 41,5°C for a period of 18 ± 1 h for these species of *Vibrio*, before proceeding to a selective medium for isolation.

Quality control

Physical/Chemical control

Color : yellow

pH: 8.6 ± 0.2 at 25°C

Microbiological control

Inoculate: Practical range 100±20 CFU; Min. 50 CFU (Productivity).

Keep incubation for 6 ± 1h

Subculture after incubation onto TCBS

Microorganism

Vibrio alginolyticus ATCC® 17749

Vibrio parahaemolyticus ATCC® 17802, WDCM 00037

Vibrio furnissii NCTC® 11218, WDCM 00186

Growth

Good - opaque yellowish colonies

Good-Green colonies

Good - opaque yellowish colonies

Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH

Check at 7 days after incubation in same conditions

Bibliography

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- ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media, CRC Press Inc., London.
- DOWNES, F.P. & K. ITO (2001). Compendium of Methods for the Microbiological Examination of Food. 4th Ed. APHA, Washington.
- ISO 21872-1 Technical Specification (2017) Microbiology of Food chain- Horizontal method for the detection of potentially enteropathogenic *Vibrio* spp. - Part 1: Detection of *Vibrio parahaemolyticus* and *Vibrio cholerae* and *Vibrio vulnificus*.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.