

Alkaline Peptone Water

For the enrichment of *Vibrio cholera* and *Vibrio* spp. in foodstuffs and other materials.

General Information

The medium complies with the recommendations of BAM, 8th Edition 1995, Chapter 9: *Vibrio cholera*, *V. parahaemolyticus*, *V. vulnificus* and other *Vibrio* spp.; American Public Health Association (APHA), Chapter 28: VIBRIO; AOAC Official Method 988.20 Detection of *Vibrio cholera* in Oysters; ISO 8914, 1990 Detection of *Vibrio parahaemolyticus*.

The growth of a broad spectrum of *Vibrio* spp. is promoted by Peptones, a sodium chloride concentration of 10 g/litre and a high pH of 8.5.

Typical Composition (g/litre)

Peptone 10.0; Sodium chloride 10.0

Preparation

Suspend 20 g in 1 litre of sterile demin. water and autoclave (15 min at 121 °C).

pH: 8.5 ± 0.2 at 25 °C.

The prepared medium is clear and yellow-brown.

Experimental Procedure

Inoculate Alkaline Peptone Water (usually add 25 g test portion of the sample to 225ml broth) and incubate 6-8 h and 16-24 h at 35-37 °C.

After 6-8 h and 16-24 h of incubation streak 0.1 ml on the surface of TCBS Agar, Cat.No. 1.10263 in a way that single colonies are well isolated.

Further tests for differentiation and identification of *Vibrio* spp. are described in the different methods/standards.

Literature

FDA-BAM, 8th Edition 1995, Chapter 9: *Vibrio cholera*, *V. parahaemolyticus*, *V. vulnificus* and other *Vibrio* spp.; American Public Health Association (APHA), Chapter 28: VIBRIO; AOAC Official Method 988.20 Detection of *Vibrio cholera* in Oysters; ISO 8914, 1990 Detection of *Vibrio parahaemolyticus*.

Ordering Information

Product	Ordering No.	Pack size
Alkaline Peptone Water	1.01800.0500	500 g
DCLS Agar (Deoxycholate Citrate Lactose Sucrose Agar)	1.10270.0500	500 g
TCBS Agar (vibrio Selective Agar)	1.10263.0500	500 g

Quality control after 16-24 h incubation (Inoculum: 50 - 100 cfu/ml)

Test strains	Growth (cfu/ml)
<i>Vibrio vulnificus</i> ATCC 33149	≥ 10 ⁶
<i>Vibrio cholera</i> eltor Inaba CH 38	≥ 10 ⁶
<i>Vibrio cholera</i> eltor Ogawa CH 60	≥ 10 ⁶
<i>Vibrio parahaemolyticus</i> ATCC 17802	≥ 10 ⁶



Vibrio cholerae



Vibrio parahaemolyticus