

TECHNICAL DATA SHEET

Salt Polymyxin Broth Base

Principle

Salt Polymyxin Broth Base Medium is in accordance with APHA for the cultivation of *Vibrios* from clinical and environmental sample. The media is composed of casein peptone, yeast extract and sodium chloride. Casein peptone and yeast extract provides nitrogenous compounds, sulphur, trace elements and vitamin B complex etc. High concentration of sodium chloride and alkaline pH of medium provides optimum condition that facilitates easy recovery of *Vibrios* and restricts the growth of other bacteria. The media can be fortified with polymyxin B, which provide selectivity to the medium.

Use: For detection and enumeration of *Vibrio* species.

Contents*

Ingredients	Gram/Litre
Casein peptone	10.00
Yeast extract	3.00
Sodium Chloride	20.00
pH (at 25°C)	8.8 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 33.00 grams in 1000 ml purified / distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes, cool to 45 - 50°C and aseptically add 50000 Unit of Polymyxin B Sulphate. Mix well and dispense as desired.

Specimens types analyzed

Food and sea food raw materials etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Homogeneous Cream to yellow free flowing powder
Color and clarity of set medium	Light yellow colored opalescent solution
Reaction of 3.30 % w/v aqueous solution	pH: 8.8 $\pm$ 0.2 at 25°C.
pH	8.60– 9.00 at 25°C
Growth Promotion Properties	Best at $\leq$ 100 CFU at 32-38°C for 18-72 h
Indicative Properties	Optimum at $\leq$ 100 CFU at 32-38°C for 18-48 h

Different Microbial Response

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours with added Polymyxin B sulphate (50000Unit)

Organism	ATCC	Inoculum	Growth
<i>Vibrio parahaemolyticus</i>	17802	50-100	Luxurious
<i>Vibrio cholera</i>	14035	50-100	Luxurious

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Downes F. P. and Ito K., (Eds.), (2001), *Compendium of Methods for the Microbiological Examination of Foods*, 4th Ed., APHA, Washington, D.C.

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