

TM 1848-SALT POLYMYXIN BROTH BASE (ISO 8914:1990)

INTENDED USE

For detection and enumeration of *Vibrio* species.

PRODUCT SUMMARY AND EXPLANATION

Salt Polymyxin Broth Base is used for the detection and enumeration of *Vibrio* species. It is recommended by the ISO committee and APHA, for the detection of salt-tolerant *Vibrio parahaemolyticus*. The composition and performance criteria of this medium are as per the specifications laid down in ISO 8914:1990.

COMPOSITION

Ingredients	Gms / Ltr
Sodium chloride	18.000
Peptic digest of animal tissue	9.000
Yeast extract	2.700

PRINCIPLE

Medium contains Peptic digest of animal tissue and yeast extract which provides nitrogenous compounds, carbon, sulphur, trace elements, long chain amino acids and vitamin B complex that essential for the growth. The high concentration of sodium chloride acts as a selective agent for the Salt-tolerant *Vibrio* species. Polymyxin B sulphate inhibits gram-positive organisms.

INSTRUCTION FOR USE

- Dissolve 29.70 grams in 1000ml purified/distilled water.
- Gently heat to boiling with swirling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
- Cool to 45-50 °C.
- Aseptically add rehydrated contents of 2 vial of Polymyxin B Selective supplement (TS 058).
- Mix well and dispense into sterile tubes or flasks as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Dehydrated powder	:	Cream to yellow, homogeneous free flowing powder
Appearance of Prepared medium	:	Light yellow colored, clear solution
pH (at 25°C)	:	7.4 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation with addition of Polymyxin B Selective supplement (TS 058).

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Vibrio cholerae</i>	14035	50-100	Luxuriant	35-37°C	24-48 Hours
<i>Vibrio parahaemolyticus</i>	17802	50-100	Luxuriant	35-37°C	18-24 Hours



PACKAGING:

In 500 gm packaging size.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use, if powder show evidence of microbial contamination, discoloration, drying, or other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. International Organization for Standardization (ISO), 1990, Draft ISO/DIS 8914.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
4. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**

Revision: 9th July 2020