TM 1064 – PSB BROTH BASE

INTENDED USE
For primary enrichment and enumeration of *Yersinia enterocolitica* from food.

PRODUCT SUMMARY AND EXPLANATION
Yersinia enterocolitica are ubiquitous, being isolated frequently from soil, water, animals, and a variety of foods. They comprise a biochemically heterogeneous group that can grow at refrigeration temperatures. PSB Broth Base is recommended by APHA for the primary enrichment of Yersinia species.

COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	20.000
Sodium chloride	10.000
Disodium phosphate anhydrous	18.000
Monopotassium phosphate monohydrate	3.000

PRINCIPLE
The medium consists of Peptic digest of animal tissue which provides essential growth nutrients. Sodium chloride maintains osmotic equilibrium while phosphates buffer the medium well.

INSTRUCTION FOR USE
- Dissolve 50.64 grams of dehydrated medium in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense in tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to room temperature and aseptically add filter sterilized Cycloheximide solution to a final concentration of 100 mg / litre of medium.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Light yellow coloured clear to very slightly hazy solution.
pH (at 25°C) : 7.5 ± 0.2

INTERPRETATION
Cultural characteristics observed after incubation with added cycloheximide solution.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period

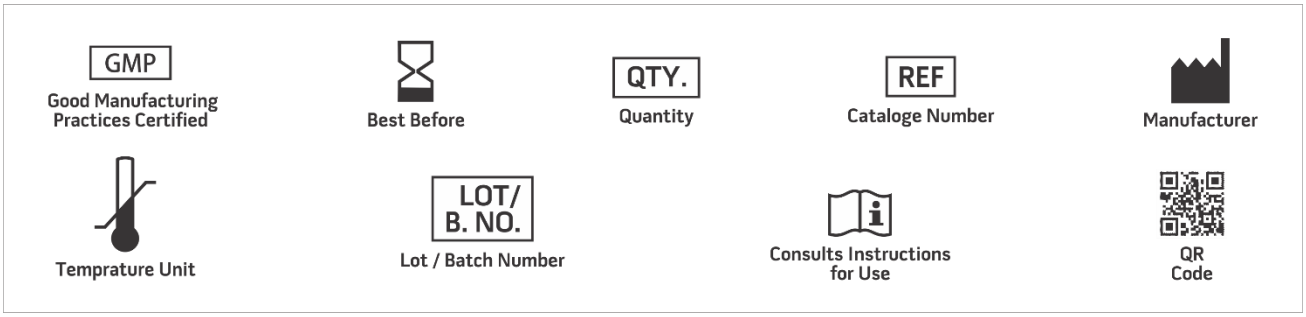
Yersinia enterocolitica	27729	50-100	Good-luxuriant	25-30°C	3-5 Days
Yersinia pseudotuberculosis	19833	50-100	Good-luxuriant	25-30°C	3-5 Days

PACKAGING:
In pack size of 500 gm bottles.

STORAGE
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°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 they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

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

REFERENCES
1. Speck M. (Ed.), 1984, Compendium of Methods for The Microbiological Examination of Foods, 3rd ed., APHA, Washington, D.C.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.
***For Lab Use Only**
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