

## TM 2440 - YERSINIA SELECTIVE BROTH BASE

### INTENDED USE

For the selective enrichment of *Yersinia enterocolitica*.

### PRODUCT SUMMARY AND EXPLANATION

*Yersinia enterocolitica* is widely distributed in lakes and reservoirs. Epizootic outbreaks of diarrhea, lymphadenopathy, pneumonia and spontaneous abortions occur in various animals. It is the most common species of *Yersinia* recovered from clinical specimens. *Yersinia enterocolitica* is biochemically more active at room temperature than at 37°C. Yersinia Selective Broth Base is recommended for the selective enrichment of *Yersinia enterocolitica*.

### COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
L-asparaginic acid	20.000
Sodium pyruvate	2.500
Tween 80	2.200
MOPS/TRIS	5.500

### PRINCIPLE

The medium contains peptone which provides carbonaceous and nitrogenous compounds, long chain amino acids and other essential compounds. L-asparaginic acid and sodium pyruvate are growth supporting ingredients. MOPS/TRIS buffers the medium.

### INSTRUCTION FOR USE

- Dissolve 40.2 grams in 1000 ml purified / distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and aseptically add the rehydrated contents of 1 vial of Yersinia Selective Supplement.
- Mix well and dispense into sterile tubes or flasks as desired.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow coloured, homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured clear solution without any precipitate.
pH (at 25°C)	: 7.2±0.2

### INTERPRETATION

Cultural characteristics observed after an incubation.

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

<i>Enterococcus faecalis</i>	29212	$\geq 10^3$	Inhibited	25-30°C	18- 24 Hours
<i>Pseudomonas aeruginosa</i>	27853	$\geq 10^3$	Inhibited	25-30°C	18- 24 Hours
<i>Yersinia enterocolitica</i>	27729	50-100	Good-luxuriant	25-30°C	18- 24 Hours

**PACKAGING:**

In pack size of 100 gm and 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. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
2. Downes F. P. and Ito K., (Ed.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., American Public Health Association, Washington, D.C.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. 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.
5. 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.
6. Schiemann D. A., 1979, Can. J. Microbiol., 25: 1298.
7. Schiemann D. A., 1980, Can. J. Microbiol., 26: 1232.
8. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative	 CE European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

**\*For Lab Use Only**  
**Revision: 08 Nov., 2019**

