

TMV 921 - YEAST EXTRACT ROSE BENGAL BROTH BASE (VEG.)

INTENDED USE

For cold enrichment and recovery of *Yersinia enterocolitica* and *Yersinia pseudotuberculosis* from foods.

PRODUCT SUMMARY AND EXPLANATION

This medium is prepared by using synthetic detergent in place of bile salts that make the medium free of BSE/TSE risks. Yeast Extract Rose Bengal Veg Broth Base is the modification of Yeast Extract Rose Bengal Broth Base which is formulated as recommended by APHA for enrichment of *Yersinia* species from foods.

Yersinia enterocolitica and *Yersinia pseudotuberculosis* can grow at 4°C, so primary enrichment is carried out in this medium for 9 days at 4°C or 3 days at 10°C. From this enrichment medium the organisms are further enriched in secondary selective enrichment medium such as PSTA Veg Broth and then isolated by streaking onto selective plating media such as Yersinia Selective Veg Agar, SS Veg Agar and MacConkey Veg Agar.

COMPOSITION

Ingredients	Gms / Ltr
Yeast extract	5.000
Disodium phosphate	17.250
Synthetic detergent	2.0
Sodium chloride	1.000
Magnesium sulphate	0.010
Sodium pyruvate	1.000
Rose bengal	0.040

PRINCIPLE

Yeast extract provides essential nutrients. Synthetic detergent inhibits gram-positive organisms. Salts help in cold enrichment of *Yersinia* species.

INSTRUCTION FOR USE

- Dissolve 26.3 grams in 900 ml distilled water.
- Heat if necessary, to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 20-25°C and aseptically add 100 ml of 4% filter sterilized sorbose solution.
- Mix well and dispense aseptically as desired

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Pink coloured, homogeneous, free flowing powder.
Appearance of prepared medium : Reddish pink coloured, clear solution without any precipitate.
pH (at 25°C) : 7.9±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Yersinia enterocolitica</i>	27729	50-100	Good-luxuriant	4°C or	9-10 days
<i>Yersinia pseudotuberculosis</i>	29833	50-100	Good-luxuriant	4°C or	9-10 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.

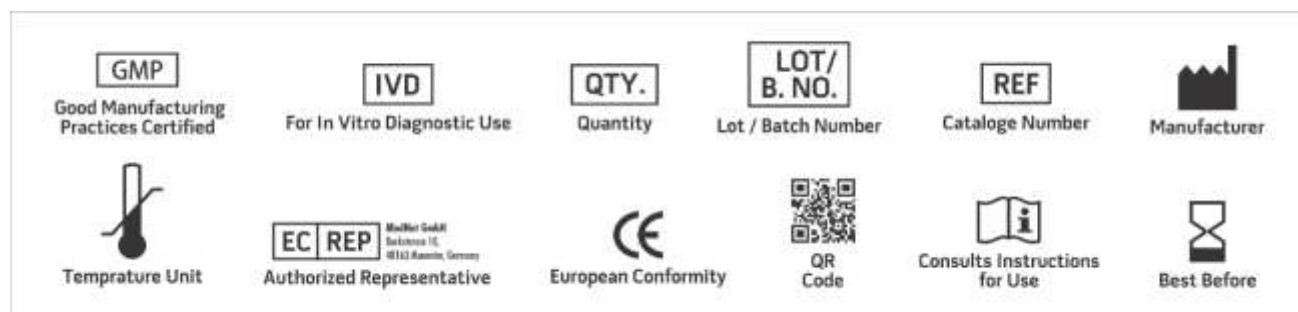
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Downs F. P. and Ito K (Eds.), 2001, Compendium of Methods for The Microbiological Examination of Foods, 4th ed., APHA, Washington, D.C.
2. Schiemann D.A., 1982, Appl. Environ. Microbiol., 43:14.



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

***For Lab Use Only**

Revision: 08 Nov., 2019



A- 902A, RIICO Industrial Area, Phase III, Bhiwadi-301019.



