

TM 834 – PRE ENRICHMENT BROTH BASE

INTENDED USE

For isolation and enrichment of *Yersinia enterocolitica* from foods.

PRODUCT SUMMARY AND EXPLANATION

Yersinia enterocolitica, a small rod-shaped, gram-negative bacterium, is often isolated from clinical specimens such as wounds, faeces, sputum and mesenteric lymph nodes. It is a foodborne pathogen responsible for gastroenteritis. It is primarily a zoonotic and does not form normal human flora. *Y. enterocolitica* have been isolated from meats (pork, beef, lamb, etc.), oysters, fish, and raw milk. Pre-Enrichment Broth is formulated as recommended by APHA for the isolation and enrichment of *Y. enterocolitica* from foods.

COMPOSITION

Ingredients	Gms / Ltr
Peptone, special	10.000
Yeast extract	20.000
Disodium phosphate	7.100
Sodium chloride	1.000
Potassium chloride	1.000

PRINCIPLE

This medium consists of Yeast extract and special peptone which supply essential nutrients like vitamin B complex, nitrogen compounds and trace ingredients. Sodium chloride and disodium phosphate protects the medium against any osmotic and pH imbalance respectively. Magnesium sulphate, calcium chloride and potassium chloride provide the ions necessary for the growth of the organisms.

INSTRUCTION FOR USE

- Dissolve 39.1 grams in 980 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 45°C and aseptically add 10 ml each of filter sterilized magnesium sulphate and calcium chloride (0.1%) solution.
- Mix well and dispense into sterile tubes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured clear solution with slight precipitate
pH (at 25°C)	: 8.3 ± 0.2

INTERPRETATION

Cultural characteristics observed with added 10ml each of filter sterilized magnesium sulphate and calcium chloride (0.1%) solution after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Yersinia enterocolitica</i>	27729	50-100	Luxuriant	10°C	3 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

- Vanderzant C. and Splittstoesser D. F., (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.
- Schiemann D. A., 1979, Can. J. Microbiol., 25: 1298.

 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 <small>MedNet GmbH Borkstrasse 10, 48163 Moenster, Germany</small>	 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**
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