

BILE OXALATE SORBOSE BROTH

(UNICHIM 1155/1)

Medium recommended for the enumeration of heat resistant spores of thermophilic bacteria in milk and dairy products.

DESCRIPTION

Pre-enrichment broth for the research of *Yersinia enterocolitica*, according to UNICHIM 1155/1: 1998.

Two new enrichment media have been formulated for the recovery of *Yersinia enterocolitica* from foods: 1) Yeast Extract-Rose Bengal Broth for pre-enrichment at 4 or 10 degrees °C; and 2) Bile-Oxalate-Sorbose Broth, a selective enrichment incubated at 25 ° C. The comparison of these media in an enrichment procedure two-step cold enrichment and modified Rappaport broth showed improvement and rapid recovery of human *Y. Enterocolitica* strains from inoculated foods.

The use of Bile-Oxalate-Sorbose Broth as a selective enrichment has also improved cold enrichment performance with Phosphate-Buffered Saline.

Determining the best enrichment system for recovery of *Y. enterocolitica* from pork samples per minute and fresh pork tongues depends on whether the criterion was the number of positive samples, the variety of different serotypes recovered or the ability to recover the important human serotype O: 3.

A single enrichment system with the highest selectivity would include pre-enrichment at 4 ° C with phosphate buffered saline for 14 days or Yeast Extract-Rose Bengal Broth for 9 days followed by selective enrichment with Bile-Oxalate-Sorbose Broth a 25 ° C 5 days.

COMPOSITION	g/L
Disodium hydrogen phosphate	9.14
Sodium oxalate	5.0
Bile salts	2.0
Sodium chloride	1.00
Magnesium sulphate heptahydrate	0.01
Calcium chloride	0.01
Yeast extract	0.025
Sodium pyruvate	0.05
Sorbose	10.0
Asparagine	1.0
Methionine	1.0
Metanyl yellow	0.025
Nitrofurantoin	0.01
Irgasan	0.004

Final pH 7,6 ± 0,2 at 25°C

WARNING AND PRECAUTIONS

For in vitro diagnostic use.

Observe the precautions normally taken when handling laboratory reagents.

Prepared Medium: The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

Safety Data Sheet is available on request for professional users.

All waste must be disposed of according to local directives.

STORAGE AND STABILITY

Prepared medium: 10-25°C

The product is stable until the expiration date indicated on the label under the recommended storage conditions.

QUALITY CONTROL

Typical response after incubation at 25°C for 5 days:

MICROORGANISM	GROWTH
<i>Yersinia enterocolitica</i> ATCC® 27729	Good
<i>Escherichia coli</i> ATCC® 25922	Inhibited

REFERENCES

- Vanderzand C. and Splittstosser, (Ed.) 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.
- Schiemann D.A., 1987, J. Dairy Sci., 70:383.

PRESENTATION

Packaging
REF.
Prepared medium:
BILE OXALATE SORBOSIO BROTH
6 x 100 mL bottles
63679

SYMBOLS


Read the instructions

Biological hazard

CE Mark (product complies with the requirements of Regulation (EU) 746/2017)

Temperature limitation

Use by

For in vitro diagnostic use

Manufacturer