

TM 2361 – TEEPOL BROTH (DOUBLE PACK)

INTENDED USE

For selective isolation and identification of enteric, lactose fermenting bacteria.

PRODUCT SUMMARY AND EXPLANATION

Faecal coliform bacteria are a group of bacteria passed through faecal excrement of humans, livestock and wild life. They are used as indicators of faecal pollution in water such as waste waters, effluents, rivers, marine environments, recreational waters and raw sources of drinking water supplies. The use of teepol in place of bile salts was previously recommended by Jameson and Emberley. Burman showed that if a preliminary incubation is carried out at lower temperature resuscitation is not required. Non-chlorinated organisms benefit from 4 hours' incubation at 30°C but chlorinated organisms require 6 hours incubation at 25°C. The coliform and *Escherichia coli* count are made on separate volumes of water. The water samples are filtered through membrane filter and this filter is placed face upwards on an absorbent pad saturated with Teepol Broth. The yellow colonies formed are further identified.

COMPOSITION

Ingredients	Gms / Ltr
Part I	
Peptone	20.000
Lactose	10.000
Sodium chloride	5.000
Phenol red	0.020
Part II	
Teepol	1.000

PRINCIPLE

The medium contains peptone and lactose which provides nutrients and act as the source of energy. Sodium chloride maintains the osmotic balance and phenol red acts as an indicator.

INSTRUCTION FOR USE

- Suspend 35.02 grams of Part I and then add 1 gram of Part II in 1000 ml purified / distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense in tubes containing inverted Durham's tubes.
- Sterilize by autoclaving at 15 psi pressure at (121°C) for 15 minutes. Cool to 45-50°C.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Part I : Light yellow to light pink homogeneous free flowing powder Part II : Colourless viscous solution
Appearance of prepared medium	: Red coloured clear to slightly opalescent solution.
pH (at 25°C)	: 7.6±0.2

INTERPRETATION

Cultural characteristics observed after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth at 35-37°C	Growth at 43-45°C	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Good-luxuriant	Good-luxuriant	Hours
<i>Klebsiella aerogenes</i>	13048	50-100	Good-luxuriant	Inhibited	Hours

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. Jameson J.E. and Emberley N.W., 1956, J. Gen. Microbiol., 15:198.
2. 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.
3. Burman N.P., 1967 b, Rec. Adv. in Bacteriological Examination of Water, Collins C. H. (Ed.), Butterworth, London, pg. 185.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.

 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 Birkstrasse 10, 48163 Moers, 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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