

TM 518 – ENDO BROTH

INTENDED USE

For cultivation and enumeration of coliform bacteria from water.

PRODUCT SUMMARY AND EXPLANATION

Endo Broth is used to differentiate gram-negative bacteria on the basis of lactose fermentation, while inhibiting gram-positive bacteria. Inhibition of the later was achieved without the use of bile salts as was traditionally used. Endo was successful in inhibiting gram-positive bacteria on his medium by the incorporation of sodium sulphite and basic fuchsin.

COMPOSITION

Ingredients	Gms / Ltr
Lactose	10.000
Peptic digest of animal issue	6.800
Dipotassium phosphate	3.500
Sodium sulphite	2.500
Basic fuchsin	0.200

PRINCIPLE

The medium consists of peptic digest of animal tissue which provide nitrogen, carbon, vitamins and minerals required for bacterial growth. Sodium sulphite and basic fuchsin make this medium selective by suppressing gram-positive organisms. Coliforms produce pink colonies on fermentation of lactose while lactose non-fermenters produce colourless colonies on the medium. With *Escherichia coli*, this reaction is very pronounced as the fuchsin crystallizes, exhibiting a permanent greenish metallic luster (fuchsin luster) to the colonies. Medium should be stored away from light to avoid photo-oxidation.

INSTRUCTION FOR USE

- Dissolve 23.00 gm in 980ml distilled water.
- Gently heat to boiling with gentle swirling and dissolve the medium completely. DO NOT AUTOCLAVE.
- Mix well before use the medium.
- Cool to 45 - 50°C and aseptically add 20 ml of 95% Ethanol.
- Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Rose colour clear solution.
pH (at 25°C) : 7.5 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Luxuriant	35-37°C	18-24 Hours
<i>Enterobacter aerogenes</i>	13048	50-100	Luxuriant	35-37°C	18-24 Hours
<i>Proteus mirabilis</i>	14273	50-100	Luxuriant	35-37°C	18-24 Hours
<i>Salmonella Typhimurium</i>	14020	50-100	Luxuriant	35-37°C	18-24 Hours
<i>Staphylococcus aureus</i>	25923	$\geq 10^3$	Inhibited	35-37°C	18-24 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.

 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>MedWet GmbH Buckenhof 10 48163 Ahaus, 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**
Revision: 08 Nov., 2019