

TMV 584 - STREPTOCOCCUS ENRICHMENT BROTH (SE BROTH) (VEG.)

INTENDED USE

For enrichment of Streptococci.

PRODUCT SUMMARY AND EXPLANATION

This medium is prepared by using vegetable peptones in place of animal based peptones which make the medium free of BSE/TSE risks. Streptococcus Enrichment Veg Broth is the modification of the Streptococcus Enrichment Broth (S.E. Broth). Rochaix first observed the ability of Enterococci to hydrolyse esculin. Enterococci can hydrolyze esculin but other Streptococci fail to do so. Presumptive identification of group D Streptococci by bile esculin test was reported by Facklam and Moody. Later on Bile Esculin Medium was modified by Isenberg et al by reducing the bile concentration and adding sodium azide to the medium.

COMPOSITION

Ingredients	Gms / Ltr
Veg hydrolysate	26.0
Yeast extract	6.0
Synthetic detergent No. II	3.0
Sodium chloride	5.0
Sodium citrate	1.0
Esculin	1.0
Ferric ammonium citrate	0.5
Sodium azide	0.25

PRINCIPLE

Veg hydrolysate and yeast extract provide nitrogenous compounds, carbon, sulphur, trace elements and vitamin B complex, essential for Streptococci. Esculin is hydrolyzed by group D Streptococci (including Enterococci) to esculin and dextrose. Esculetin reacts with ferric ammonium citrate to form a dark brown-black coloured complex. Synthetic detergent No. II inhibits gram-positive bacteria other than Streptococci. Sodium azide inhibits gram negative bacteria.

INSTRUCTION FOR USE

- Dissolve 42.8 grams in 1000 ml distilled water.
- Heat to dissolve the medium completely.
- Dispense in 9 ml amounts into test tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 20 minutes.

Warning: Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Yellow coloured homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured clear solution with a bluish tinge.
pH (at 25°C)	: 7.0±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Colour of medium	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Inhibited	-	35 - 37°C	18 - 48 Hours
<i>Enterococcus faecalis</i>	29212	50-100	Good-luxuriant	Black	35 - 37°C	18 - 48 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Inhibited	-	35 - 37°C	18 - 48 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. Rochaix, 1924, C.R. Soc. Biol., 90:771.
2. Facklam and Moody, 1970, Appl. Microbiol., 20:245.
3. Isenberg, Goldberg and Sampson, 1970, Appl. Microbiol., 20:433.
4. MacFaddin J., 1980, Biochemical Tests for Identification of Medical Bacteria, 2nd ed., Williams and Wilkins, Baltimore.

 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	 CE 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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