TMV 432 - STREPTOCOCCUS SELECTION AGAR (STREPTOSEL AGAR) (VEG.)

INTENDED USE

For selective isolation and enumeration of Streptococci including group A beta haemolytic strains.

PRODUCT SUMMARY AND EXPLANATION

Streptococcus Selection Veg Agar is prepared by using Veg Hydrolysate in place of Casein enzymic hydrolysate, hence this medium is free of BSE/TSE risks. This medium is the modification of Streptococcus Selection Agar which is based on the suggestion of Pike, for the selective isolation of Streptococci from various materials, especially those which are heavily contaminated with accompanying microbial flora. This also has been reported by Welch et.al. as well. This medium like the conventional media have the ability of recovering group A ß haemolytic Streptococci.

COMPOSITION

Ingredients	Gms / Ltr
Veg hydrolysate	15.000
Papaic digest of soyabean meal	5.000
Dextrose	5.000
Sodium chloride	4.000
Sodium citrate	1.000
Sodium sulphite	0.200
L-Cystine	0.200
Sodium azide	0.200
Crystal violet	0.0002
Agar	15.000

PRINCIPLE

Veg hydrolysate, papaic digest of soyabean meal, dextrose and salts provide nutrients essential for the growth of Streptococci. Sodium azide, sodium sulphite inhibits gram-negative rods and the crystal violet suppresses Staphylococci. However, Streptococci are not affected by these inhibitors at these concentrations. Due to this reason, this medium is useful in studies of streptococcal flora from nutritional, dental and epidemiological research. Growth of coliforms, *Proteus, Pseudomonas* and *Bacillus* species is markedly suppressed in this medium. However, some strains of Staphylococci and Pneumococci may grow in this medium. All streptococcal colonies must be confirmed for identification.

INSTRUCTION FOR USE

- Dissolve 45.6 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely, autoclaving is not required if medium is used on the same day.
- If storage is desired, sterilize by autoclaving at 118°C for 15 minutes.
- Avoid overheating.

CAUTION: Sodium azide has a tendency to form explosive metalazide with plumbing material. It is advisable to use enough water to flush off the disposable.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Light to medium amber coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C) : 7.4±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Bacillus subtilis	6633	>=10^3	Inhibited	0%	35 - 37°C	18 - 24 Hours
Enterococcus faecalis	29212	50-100	Luxuriant	>=70%	35 - 37°C	18 - 24 Hours
Escherichia coli	25922	50-100	None-poor	0-10%	35 - 37°C	18 - 24 Hours
Pseudomonas aeruginosa	27853	>=10^3	Inhibited	0%	35 - 37°C	18 - 24 Hours
Staphylococcus aureus	25923	50-100	None-poor	0-10%	35 - 37°C	18 - 24 Hours
Streptococcus pyogenes	19615	50-100	Luxuriant	>=70%	35 - 37°C	18 - 24 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

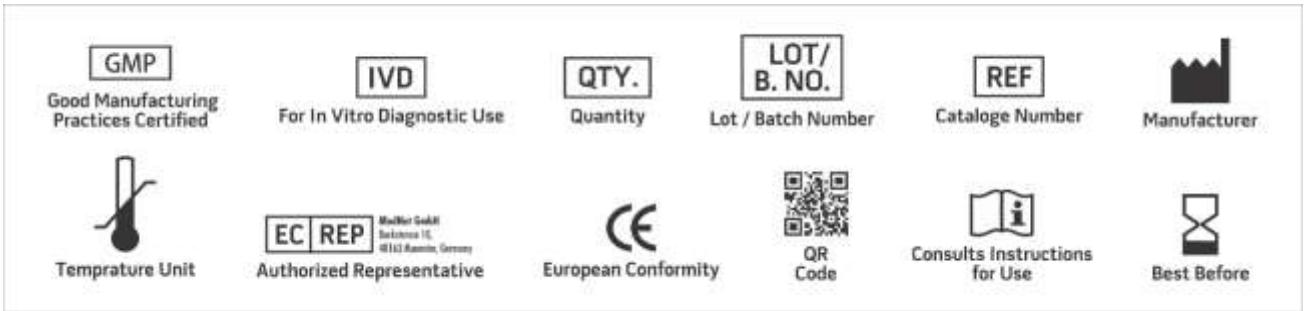
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided 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.

REFERENCES

1. Pike R. M., 1945, Am. J. Hyg., 41:211.
2. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Yolken R. H., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.,
3. Welch D. F., Henel D., Pickett D., Johnson S., 1991, Am. J. Clin. Pathol., 95:587.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**

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