

TM 2337 - SODIUM AZIDE CRYSTAL VIOLET BLOOD AGAR

INTENDED USE

For selective cultivation of *Erysipelothrix rhusiopathiae*.

PRODUCT SUMMARY AND EXPLANATION

Sodium Azide Crystal Violet Blood Agar is prepared based on the formula described by Packer for selective cultivation of Erysipelothrix rhusiopathiae. It can also be used for the isolation of Streptococci Especially Streptococcus pneumonia.

COMPOSITION

Ingredients	Gms / Ltr		
Beef heart, infusion from	500.000		
Casein enzymic hydrolysate	20.000		
Sodium chloride	5.000		
Glucose	0.200		
Sodium azide	0.300		
Crystal violet	0.002		
Agar	15.000		

PRINCIPLE

Beef heart infusion and casein enzymic hydrolysate provide the necessary nitrogenous compounds and other essential nutrients to the organisms. Glucose is the fermentable carbohydrate source in the medium but is weakly fermented by Erysipelothrix rhusiopathiae without the gas production. Crystal violet and sodium azide inhibit most of the gram-positive and gram-negative bacteria respectively. Blood provides the growth factors and also aid to detect the haemolytic reaction if any. Sodium chloride maintains the osmotic balance of the medium.

INSTRUCTION FOR USE

- Dissolve 50.5 grams in 950 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 50°C and aseptically add 5% v/v sterile defibrinated blood.
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow coloured with purple tinge homogeneous free flowing powder. Appearance of prepared medium : Basal Medium yields purple coloured clear to slightly opalescent gel. With

addition of blood, reddish purple coloured opaque gel forms in petri plates.

pH (at 25°C) : 7.0±0.2

INTERPRETATION

Cultural characteristics after incubation with 5-10% CO₂, in an anaerobic atmosphere.











Microorganism	АТСС	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Inhibited	0%	35 - 37°C	18-24 Hours
Erysipelothrix rhusiopathiae	19414	50-100	Good- luxuriant	>=50 %	35 - 37°C	18-24 Hours
Proteus mirabilis	25933	50-100	Inhibited	0%	35 - 37°C	18-24 Hours
Streptococcus pneumoniae	6303	50-100	Good- luxuriant	>=50 %	35 - 37°C	18-24 Hours
Staphylococcus aureus	25923	50-100	Inhibited	0%	35 - 37°C	18-24 Hours

PACKAGING:

In pack size of 100 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. Packer R.A., 1943, J. Bact., 46: 343.
- 2. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.



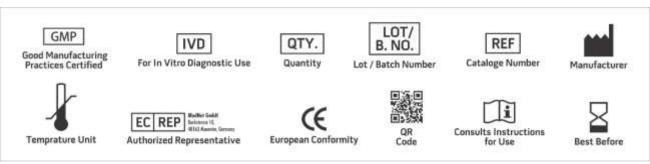












NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. *For Lab Use Only Revision: 08 Nov., 2019







