

Technical Information

Azide Blood Agar Base, MiVeg

Product Code : VM1158

Application:- Azide Blood Agar Base, MiVeg is used for the isolation and differentiation of *Streptococci* and *Staphylococci*.

Composition

Ingredients	Gms / Litre
MiVeg special peptone	10.0
MiVeg extract	3.0
Sodium chloride	5.0
Sodium azide	0.2
Agar	15.0
Final pH (at 25°C)	7.2±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Azide Blood Agar Base, MiVeg contains MiVeg special peptone and MiVeg extract of vegetable source instead of Peptone special and Beef extract respectively and so the medium becomes free from BSE/TSE risk. This medium is a modification of Azide Blood Agar Base recommended for enumeration of *Streptococci* from cheese (1). MiVeg special peptone used in this medium is highly nutritious and helps in the luxuriant growth of fastidious microorganisms. Azide inhibits growth of many gram-negative bacteria. *Proteus* species may grow on this medium, but its swarming is inhibited. The pH of medium enhances the inhibitory action of sodium azide. At pH 7.2 sodium azide does not interfere with haemolytic reactions of *Streptococci*, however, haemolytic pattern of *Streptococci* is different on Azide Blood Agar Base, MiVeg as compared with nonselective blood agar. Azide promotes haemolytic reactions (2). Use light inoculum for best results and incubate anaerobically for enhancement in haemolytic reaction.

Methodology

Suspend 33.2 grams of powder media in 1000 ml of distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. To prepare Azide Blood Agar MiVeg plates, add 5% w/v sterile defibrinated blood aseptically.

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

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Basal medium yields yellow coloured, slightly opalescent gel. Addition of 5% v/v sterile defibrinated blood yields cherry red opaque gel which darkens on standing.

Reaction

Reaction of 3.32% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH range

7.0-7.4

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

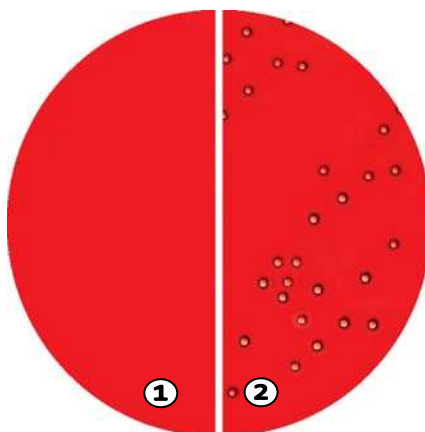
Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery	Haemolysis
<i>Enterococcus faecalis</i> (29212)	$10^2 - 10^3$	luxuriant	>50%	alpha/gamma
<i>Escherichia coli</i> (25922)	$10^2 - 10^3$	none - poor	<10%	-
<i>Staphylococcus epidermidis</i> (12228)	$10^2 - 10^3$	luxuriant	>50%	-
<i>Streptococcus pyogenes</i> (19616)	$10^2 - 10^3$	luxuriant	>50%	Beta
<i>Streptococcus pneumoniae</i> (6305)	$10^2 - 10^3$	luxuriant	>50%	alpha

Key: Incubate in anaerobic condition for haemolytic reaction.

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.



VM1158 Azide Blood Agar Base, MiVeg

1. Control

2. *Streptococcus pyogenes*

Further Reading

1. Marshall R.(Ed.), 1982, Standard methods for the examination of Dairy Products, 16th ed., APHA, Inc., New York.
2. Lichstein H.C. and Snyder M.L., 1941, J.Bact., 42:653.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents. Do not use the products if it fails to meet specifications for identity and performance parameters.