

Technical Information

BPL MiVeg Agar

Product Code : VM2020

Application:- BPL MiVeg Agar is a selective media used for isolation and identification of *Salmonellae* with the exception of *Salmonella* serotype Typhi in faeces, urine, meat, milk and other materials.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 1	7.0
Sodium chloride	5.0
Lactose	15.0
Phenol red	0.04
Brilliant green	0.005
Agar	13.0
Final pH (at 25°C)	6.5±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

BPL MiVeg Agar is prepared by using MiVeg peptone No.1 instead of Meat peptone which makes the medium free from BSE/TSE risks. This medium is the modification of Brilliant green, phenol red, lactose Agar (BPL) which is a selective agar for the identification and isolation of *Salmonella* with the exception of *Salmonella* serotype Typhi in faeces, urine, meat, milk and other materials (1). This medium contains MiVeg peptone No.1 which provides the nitrogenous nutrients for the growth of organisms. Lactose is the fermentable carbohydrate, which produce acid after degradation, indicated by the phenol red indicator. In the acidic range, phenol red turns yellow while in alkaline conditions it turns red. Brilliant green inhibits gram-positive organisms and also *Salmonella* serotype Typhi and *Shigella* species.

Methodology

Suspend 40 grams of powder media in 1000 ml purified/distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.3% Agar gel.

Colour and Clarity of prepared medium

Brownish green coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 4.0% w/v aqueous solution is pH 6.5 ± 0.2 at 25°C.

pH range

6.3-6.7

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours

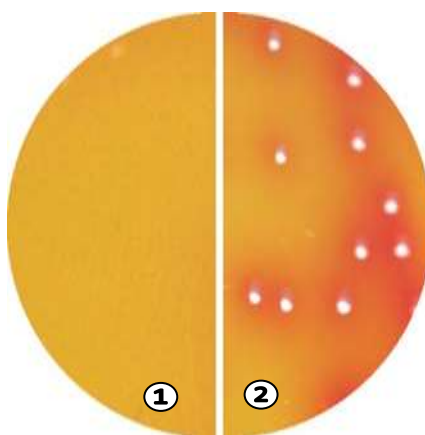
Organisms (ATCC)	Inoculum (CFU)	Growth	Colour of colony	Recovery
<i>Bacillus subtilis</i> (6633)	>10 ³	none-poor	-	<10%
<i>Enterococcus faecalis</i> (29212)	>10 ³	none-poor	-	<10%

<i>Escherichia coli</i> (25922)	10^2 - 10^3	good-luxuriant	yellow	<50%
<i>Salmonella</i> serotype Choleraesuis (13312)	10^2 - 10^3	good-luxuriant	pink-red	<50%
<i>Salmonella</i> serotype Enteritidis (13076)	10^2 - 10^3	good-luxuriant	pink-red	<50%
<i>Salmonella</i> serotype Typhimurium (14028)	10^2 - 10^3	good-luxuriant	pink-red	<50%
<i>Staphylococcus aureus</i> (25923)	$>10^3$	none-poor	-	<10%

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.



VM2020 BPL MiVeg Agar

1. Control

2. *Salmonella* serotype Enteritidis

Further Reading

1. Kauffmann F., 1935, Z. Hyg. Infekt. Kr., 117:26.

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
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