

Bases / Media Supplements

Technical Information

Lactobacillus Bulgaricus MiVeg Agar Base

Product Code : VM1927

Application:- Lactobacillus Bulgaricus MiVeg Agar Base with acetate buffer is used for isolation and identification of *Lactobacillus bulgaricus*.

Composition		
Ingredients	Gms / Litre	
MiVeg hydrolysate	10.0	
Yeast extract	5.0	
MiVeg extract	10.0	
Dextrose	20.0	
Dipotassium phosphate	2.0	
Tomato juice	2.0	
Polysorbate 80	1.0	
Agar	20.0	
Final pH (at 25°C)	6.8 ± 0.2	
** Formula adjusted standardized to suit no	rformanco, paramotors	

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Lactobacillus Bulgaricus MiVeg Agar Base is prepared by using MiVeg hydrolysate and MiVeg extract instead of Casein enzymic hydrolysate and Beef extract respectively thereby making the medium BSE/TSE risks free. Lactobacillus Bulgaricus MiVeg Agar Base is the modification of Lactobacillus Bulgaricus Agar Base which was originally formulated by Kulp and White (1) for the recovery of *Lactobacilli* and further modified as recommended by APHA (2) for isolation and identification of *Lactobacillus bulgaricus* from foods.

MiVeg hydrolysate, MiVeg extract and yeast extract supply nitrogenous compounds, minerals, vitamins and trace ingredients. Polysorbate 80 supplies fatty acids needed for *Lactobacilli* metabolism. Dextrose is the fermentable carbohydrate. Tomato juice along with the acetate maintain the low pH of the medium and thus inhibits microorganisms other than *Lactobacilli*. Acetate also restricts the swarming of *Lactobacillus bulgaricus* and along with dipotassium phosphate forms the buffering system.

Methodology

Suspend 70 grams of powder media in 920 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Add 80 ml Acetate Buffer (11.355% Sodium acetate and 0.99% Acetic acid). Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. DO NOT OVERHEAT THE MEDIUM.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

Medium amber coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of the medium (7% w/v aqueous solution of base containing 8% v/v acetate buffer) is pH 6.8 \pm 0.2 at 25°C.





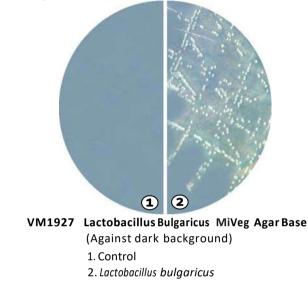
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pH Range 6.6-7.0 Cultural Response/Characteristics

Cultural characteristics observed a	fter an incubation at 35	-37°C for 18-48 hour	s.
Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
Lactobacillus bulgaricus (11842)	10 ² -10 ³	good-luxuriant	>70%

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 day.



Further Reading

1. Kulp and White, 1932, Science, 76:17.

2. Downes FP, Ito K (Eds.), 2001, Compendium of Methods For the Microbiological Examination of Foods, 4th ed., APHA, Washington, D.C.

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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