

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B267	PPLO BROTH BASEW/O CV(MYCOPLASMA BROTH BASEW/O CV)		
Formula			
Ingredients :		gms/lit.	
Meat heart, infusion from #		250.00	
Peptic digest of animal tissue		10.00	
Sodium chloride		5.00	
Equivalent to beef heart infusion From			
Final pH (at 25°C) : 7.8± 0.2			
Directions :			
Suspend 21.0 grams in 700 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and aseptically add 300 ml of Horse serum. If crystal violet is used as the selective agent, enrich with Ascitic fluid instead of Horse serum. If desired add 10 vials of Mycoplasma Enrichment Supplement (BF085) instead of horse serum. Mix well and dispense aseptically into sterile tubes.			
Principle :			
PPLO Broth without crystal violet is prepared according to the formula described by Morton and Lecce. Crystal violet is omitted from this formula due to its inhibitory action on some Mycoplasma. Peptic digest of animal tissue & Meat infusion provides nitrogen, sulphur, vitamins, and other growth nutrients for luxuriant growth of organisms. Sodium chloride maintains osmotic equilibrium. Mycoplasma require serum for their good growth and also presence of antibiotic is necessary to prevent the growth of contaminating organisms. Mostly the Mycoplasma species are aerobic or facultatively anaerobic but some are microaerophilic. Few are anaerobic saprophytic Mycoplasma which grow best at 22-35°C while pathogenic strains grow at 35°C. After subculture to plates of PPLO Agar, possible broth cultures produce colonies exhibiting the typical morphology, i.e., fried egg appearance.			
QC Tests – (I) Dehydrated Medium			
	Colour :	Cream to yellow	
	Appearance :	Homogeneous Free Flowing powder	
(II) Rehydrated medium			
	pH (post autoclaving/heating) :	7.8 ± 0.2	
	Colour (post autoclaving/heating) :	Yellow	
	Clarity (post autoclaving/heating) :	Clear	
(III) Q.C. Test Microbiological			
	Cultural characteristics observed in presence of 10% Carbon dioxide with added 1% Horse serum and Mycoplasma Enrichment Supplement (FD075), after an incubation at 22-35°C for 48 hours.		
	MICROORGANISM (ATCC)	GROWTH	
	Mycoplasma bovis (25523)	Good - Luxuriant	
	Mycoplasma gallinarium (19708)	Good - Luxuriant	
	Mycoplasma pneumoniae (15531)	Good - Luxuriant	
	Streptococcus pneumoniae (6303)	Good - Luxuriant	
Precautions :	1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. Thallium acetate can partially inhibit some mycoplasmas.		
Use :	With the addition of enrichment, is used for isolation and cultivation of Mycoplasma (Pleuropneumonia like organisms).		
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.		

Refer disclaimer Overleaf

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Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B267	21g/l	23.809L	7.8 ± 0.2	1% Horse serum and Mycoplasma Enrichment Supplement (BF085).	121 ⁰ C / 15 minutes

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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