B265	MYCOPLASMA AGAR BASE(PPLO AGAR BASE)
Formula	
Ingredients :	**gms/lit.**
Meat heart, infusion from #	250.00
Peptic digest of animal tissue	10.00
Sodium chloride	5.00
Agar	15.00
#Equivalent to beef heart infusion from	
Final pH (at 25°C):7.8±0.2	

Directions:

Suspend 36.0 grams in 700 ml purified / distilled water. 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 and aseptically add 300 ml Horse serum or 10 vials of Mycoplasma Enrichment Supplement (BF085). Mix well before dispensing. 25% Ascitic fluid can be used instead of Horse serum.

dPrinciple:

PPLO Agar was described by Morton, Smith and Leberman.Peptic digest of animal tissue & Meat heart infusion provide nitrogen, sulphur, vitamins, and other growth nutrients for luxuriant growth of organisms. Sodium chloride maintains osmotic equilibrium. Agar is the solidifying agent. Many Mycoplasmas 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. Mycoplasma when grow in the agar medium show typical morphology and form colonies below the agar surface and do no grow without serum. Plates or tubes should be incubated in an atmosphere containing 5-10% carbon dioxide and examined after incubation of 48 hours but they should not be discarded as negative until after incubation for 3 weeks. PPLO colonies are round with a dense center and a less dense periphery, resembling a "fried egg" on PPLO Agar.

Type of specimen : Clinical samples and pharmaceutical samples.

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established and current guidelines of clinical microbiology.

After use, contaminated materials must be sterilized by autoclaving before discarding.

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):	Light to medium yellow	
	Clarity (post autoclaving/heating):	Clear to slightly opalescent gel	
(III) Q.C. Test Microbiological			
	Cultural characteristics observed in presence of 10% Carbon dioxide with added,1% Horse serum or 10 vials of Mycoplasma Enrichment Supplement (BF085), 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	

Warning &Precautions :	1. For In vitro diagnostic Use.By professionals only.
	2. Read the label carefully before opening the container.Wear PPE wares.Follow established good microbiology laboratory practices while handling specimens and cultures and take standard precautions for handling clinical specimens.
	3. For safety guidelines refer individual safety data sheet.

Refer disclaimer Overleaf

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Limitations :	1.Since Mycoplasma species are aerobic or facultatively anaerobic but some are microaerophilic, proper incubation should be carried out for optimal recovery.				
	2.Few are anaerobic saprophytic Mycoplasma which grow best at 22-35°C while pathogenic strains grow at 35°C, hence growth conditions must be maintained.				
	3.Since the medium is highly enriched care must be taken during innoculation to avoid contamination				
	4.Thallium acetate can partially inhibit some mycoplasmas.				
Use:	For isolation and cultivation of Mycoplasma (Pleuropneumonia like organisms-PPLO).				
Storage:	Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.				
Disposal:	Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.				
Packing:	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B265	36.0 g/l	13.888 L	7.8 ± 0.2	30%Horse serum and Mycoplasma Enrichment Supplement (BF085)	121°C / 15 minutes

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TECHNICAL SHEET