

TECHNICAL SHEET

B221	LEGIONELLA AGAR BASE				
Formula					
Ingredients :		gms/lit.			
Yeast extract		10.00			
Charcoal activated		1.50			
ACES buffer		6.00			
Alpha-Ketoglutarate		1.00			
Potassium hydroxide		1.50			
Agar		17.00			
Final pH (at 25°C) : 6.9 ± 0.2					
Directions :					
Suspend 18.5 grams in 500 ml distilled water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Do not heat prior to sterilization. Cool to 45-50°C and aseptically add rehydrated contents of 1 vial of Legionella Growth Supplement (BF115) or Legionella Supplement (BF026) and Legionella Selective Supplement (BF022). Mix well and pour into sterile Petri plates. Stir the medium during dispensing to prevent settling of charcoal particles.					
Principle :					
This medium contains yeast extract to provide the necessary nitrogenous nutrients for Legionella growth. alphaKetoglutarate satisfies the specific nutritional requirements of Legionella species. Activated charcoal nullifies toxic compounds that either accumulate in the medium during growth or develop during sterilization of medium. Addition of ACES buffer helps in maintaining proper pH of the medium for optimal growth of Legionella. Antibiotics in the supplement inhibit the growth of various contaminating bacteria and fungi.					
QC Tests – (I) Dehydrated Medium					
	Colour :	Grey to black			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	6.9 ± 0.2			
	Colour (post autoclaving/heating) :	Black gel			
	Clarity (post autoclaving/heating) :	Opaque			
(III) Q.C. Test Microbiological					
Cultural characteristics observed with added Legionella Growth Supplement (BF115) or Legionella Supplement (BF026) and Legionella Selective Supplement (BF022) after an incubation at 35-37°C for 48-72 hours.					
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Legionella dumoffii (33343)	Good - Luxuriant	Light blue to grey white		
	Legionella pneumophila (33153)	Good -Luxuriant	Light blue to grey white		
Precautions :	<ol style="list-style-type: none"> 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.				
Use :	It is used for the enrichment and cultivation of Legionella species.				
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :	500 gm. bottle				
Product profile:	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B221	37 g/l	13.51lit	6.9 ± 0.2	Legionella Growth Supplement (BF115) or Legionella Supplement (BF026) and Legionella Selective Supplement (BF022)	121°C/15 min

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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