

**TECHNICAL SHEET**

<b>B627</b>	<b>MODIFIED BUFFERED CHARCOAL AGAR BASE</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Proteose peptone		10.00				
Charcoal activated		2.00				
ACES buffer		10.00				
A – Ketoglutarate monopotassium salt		1.00				
Agar		17.00				
Final pH (at 25°C) : 6.9 ± 0.2						
<b>Directions :</b>						
Suspend 20gms. in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add sterile reconstituted contents of one vial of Legionella Supplement. For selectivity of medium, add rehydrated contents of 1 vial of Legionella Selective Supplement IV. Mix well and pour into sterile petri plates with constant agitation to ensure that charcoal particles are evenly distributed.						
<b>Principle :</b>						
Proteose peptone supplies nitrogenous nutrients for growth. L-cystine is an essential amino acid while ferric pyrophosphate provides iron supplement. A – Ketoglutarate stimulates the growth of Legionella species. Activated charcoal decomposes hydrogen peroxide, a toxic metabolic product and also collects carbon-dioxide and modify the surface tension. ACES buffer maintains the pH of the medium for optimal growth. The selective supplement (MWY) helps in selective and differential isolation of Legionella species as antibiotics helps the medium to be selective by suppressing contamination of other gram – negative organisms and differential by means of bromo cresol purple and bromo thymol blue which gives colour to the colonies.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Grey				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.9 ± 0.2				
Colour (post autoclaving/heating) :		Black				
Clarity (post autoclaving/heating) :		Opaque				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed at 35°C for ...						
MICROORGANISM (ATCC )		GROWTH	COLONY COLOUR			
			3-5 DAYS	5-7 DAYS		
Legionella pneumophila (33153)		Good	White with slight colouration	Green		
Legionella dumoffii (33343)		Good	Green	-		
Legionella bozemanii		Good	Brighter green	Intensity of green colour increases blue		
Legionella miedadei		Good	Blue – grey	-		
Legionella gormanii		Good	Green	-		
Legionella longbeachae		Good	White green	-		
Legionella jordanis		Good	White green	-		
<b>Precautions :</b>						
1. For Laboratory Use.						
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
<b>Limitations :</b>						
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
<b>Use :</b>						
For isolation and cultivation of Legionella species from clinical and other specimens.						
<b>Storage :</b>						
Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C.						
<b>Packing :</b>						
500 gm bottle						
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B627</b>		40g/l	12.5 L	6.9 ± 0.2	Legionella Supplement	121°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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