B127	BUFFERED CHARCOAL YEAST EXTRACT AGAR BASE
Formula	
Ingredients:	**gms/lit.**
Yeast extract	10.00
Charcoal activated	2.00
ACES buffer	10.00
α -Ketoglutarate monopotassium salt	1.00
Agar	17.00

Final pH (at 25°C): 6.9 ± 0.2

Directions:

Suspend 20 grams in 500 ml distilled water. Add 2.4 grams KOH pellets and mix to dissolve. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C. Aseptically add sterile rehydrated contents of 1 vial each of Legionella Supplement (BF025 and BF026). Mix well and pour with constant stirring to ensure that charcoal particles get evenly distributed. For additional selectivity, Legionella Selective Supplements (BF022, BF024) may be added to molten medium as per choice.

Principle:

This medium is used for selective cultivation of Legionella species that require special media to optimize the growth. They do not oxidize or ferment carbohydrates in conventional media or grow on sheep blood agar. Amino acids are their major sources of energy and all but one species has a absolute requirements for L-cystine. This amino acid as well as ferric pyrophosphate helps for the growth of Legionella. It contains charcoal which is a deoxidant. Yeast extract which act as rich source of vitamins, nitrogen as well as carbon. ACES Buffer maintains optimal pH for growth while L-cysteine hydrochloride, ferric pyrophosphate and α –Ketoglutarate stimulate growth of Legionella species. For selective isolation, antibiotic supplements can be used to suppress contaminating microorganisms.

QC Tests – (I)Dehydrated Medium					
	Colour:	Gray to black			
	Appearance:	Homogeneous Free Flowing powder			
(II)Rehydrated medium					
	pH (post autoclaving/heating) :	6.9 ± 0.2			
	Colour (post autoclaving/heating):	Grey – black			
	Clarity (post autoclaving/heating):	Opalescent			
(III)Q.C. Test Microbiological					
	Cultural characteristics observed in 90% humid atmosphere with added Legionella Supplement (BF025 and BF026), after an incubation at 35-37°C for 3-4 days.				
	MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY		
	Legionella pneumophila (33153)	Luxuriant	White grey to blue – grey		
	Legionella dumoffii (33343)	Luxuriant	Light blue – grey		
	Escherichia coli (25922)	None to poor	-		
	Staphylococcus epidermidis (12228)	None to poor	-		

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.
Use:	For selective isolation and cultivation of Legionella species from clinical and other samples.
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
B127	40g/l	12.5L	6.9 ± 0.2	Legionella Supplement(BF025 and BF026)	121^{0}C / 15 minutes

Refer disclaimer Overleaf

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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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