

TECHNICAL SHEET

B498	DIFFERENTIAL BUFFERED CHARCOAL YEAST EXTRACT AGAR				
Formula					
Ingredients :	gms/lit.				
Yeast extract	10.00				
Charcoal activated	1.50				
L-Cysteine hydrochloride	0.40				
Ferric pyrophosphate,soluble	0.25				
ACES buffer	10.00				
α- Ketoglutarate	0.2				
Bromo cresol purple	0.01				
Bromo thymol blue	0.01				
Agar	15.00				
Final pH (at 25°C) : 6.9 ± 0.2					
Directions :					
Suspend 37.37 gms.in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired add 50 units/ml Polymixin B and 1mg/ml Vancomycin to the sterile medium before pouring into sterile petri plates.					
Principle :					
The medium contains yeast extract which provide necessary nutrients for bacterial growth. Ferric pyrophosphate, L-cysteine hydrochloride and α- Ketoglutarate stimulates the growth of Legionella species.Toxic metabolic products which are produced in the medium get neutralized by activated charcoal which modify the surface tension of the medium. Bromo cresol purple and bromo thymol blue are the pH indicators. Polymyxin B inhibits most of the gram – negative bacilli while Vancomycin suppresses the growth of most of the gram – positive bacteria.					
QC Tests – (I)Dehydrated Medium					
Colour :	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) :	Opaque				
(III)Q.C. Test Microbiological					
Cultural characteristics observed after 72-96 hrs.at 35-37°C.					
MICROORGANISM (ATCC)	GROWTH	COLOUR OF COLONY			
Legionella pneumophila (33153)	Luxuriant	White – grey to blue – grey			
Legionella dumoffii (33343)	Luxuriant	Blue - grey			
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 differentiation 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
B498	37.37g/l	13.379L	6.9 ± 0.2	50 units/ml Polymixin B and 1mg/ml Vancomycin	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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