

TECHNICAL SHEET

B125		BRUCELLA AGAR BASE				
Formula						
Ingredients :		gms/lit.				
Casein enzyme hydrolysate		10.00				
Peptic digest of animal tissue		10.00				
Yeast extract		2.00				
Dextrose		1.00				
Sodium chloride		5.00				
Sodium bisulphite		0.10				
Agar		15.00				
Final pH (at 25°C) : 7.0 ± 0.2						
Directions :						
Suspend 21.55 grams in 500 ml 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°C. & aseptically add sterile 5% v/v inactivated horse serum and sterile rehydrated contents of 1 vial of Brucella selective supplement (BF012). Mix well and dispense as desired.						
For Campylobacter: Aseptically add sterile rehydrated contents of 1 vial of Campylobacter supplement- Blaser Wang (BF013), or Campylobacter supplement-Butzler(BF014) or Campylobacter supplement-Skirrow(BF015) or Campylobacter growth supplement(BF016) to 500 ml molten sterile medium along with 5-7% defibrinated sheep blood.						
Principle :						
Casein enzyme hydrolysate and peptic digest of animal tissue provide nitrogen and carbon source, long chain amino acids, vitamins and other essential nutrients Yeast extract serves as a source of vitamin B complex, and additionally it also supplies some nitrogenous nutrients. Sodium bisulphite is a reducing agent and sodium chloride helps to maintain the osmotic equilibrium of the medium. Dextrose serves as an energy source. The medium can also be enriched with 5 % v/v sterile defibrinated horse blood. For selective isolation of Brucella species antibiotic mixtures in the form of freeze dried supplements are incorporated into the base						
QC Tests – (I)Dehydrated Medium						
		Colour :		Cream to yellow		
		Appearance :		Homogeneous Free Flowing powder		
(II)Rehydrated medium						
		pH (post autoclaving/heating) :		7.0 ± 0.2		
		Colour (post autoclaving/heating) :		Yellow		
		Clarity (post autoclaving/heating) :		Clear to slightly opalesent gel		
(III)Q.C. Test Microbiological						
		Cultural characteristics observed after an incubation at 35-37°C for 24-72 hours in presence of 10% CO2 with added sterile 5% v/v inactivated horse serum and Brucella selective supplement (BF012).				
		MICROORGANISM (ATCC)		GROWTH		
		Brucella melitensis (4309)		Luxuriant		
		Brucella suis (4314)		Luxuriant		
		Escherichia coli (25922)		Inhibited		
		Staphylococcus aureus(25923)		Inhibited		
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 Brucella or Campylobacter spp. From clinical or non-clinical specimens.				
Storage :		Dehydrated medium- below 30°C.Prepared medium between 2-8 30°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B125		43.10 g/l	11.60L	7.0 ± 0.2	BF012	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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