

B431	BORDET GENGOU AGAR BASE (W/1.6% AGAR)				
Formula					
Ingredients :		gms/lit.			
Potatoes infusion from		125.00			
Peptic digest of animal tissue		10.00			
Sodium chloride		5.50			
Agar		16.00			
Final pH (at 25°C) : 6.7 ± 0.2					
Directions :					
Suspend 36 gms. in 1000 ml. distilled water Containing 10 ml. glycerol. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15minutes. Cool to 45 – 50°C and aseptically add 15 – 20% Sterile, fresh defibrinated blood (sheep, rabbit, human or horse) Mix thoroughly, taking care to avoid incorporation of air bubbles and pour into sterile petri plates.					
Principle :					
Infusion from Potato provides nitrogen, vitamins and amino acids, Glycerol is a carbon source. Sodium Chloride maintains the osmotic balance of the medium. Agar is a solidifying agent. The addition of blood provides essential growth requirements for Bordetella species. Many factors will inhibit growth of B. pertussis, including fatty acids present in nasal secretions or cotton from the collection swab. Starch, present from the Potato Infusion, absorbs fatty acids. Modified Bordet Gengou medium, enriched with 15-20% blood, yields typical B. pertussis growth. The colonies appear small, white, opaque and surrounded by a characteristic zone of hemolysis that is not sharply defined but merges diffusely into the medium The zone of hemolysis is usually absent if 30% or more blood is added to the medium and cannot be seen on charcoal – containing media. Sterile, defibrinated sheep or rabbit blood can be used in preparing the medium.					
QC Tests – (I) Dehydrated Medium					
Colour :		Cream to light yellow			
Appearance :		Homogeneous Free Flowing powder			
(II) Rehydrated medium					
pH (post autoclaving/heating) :		6.7 ± 0.2			
Colour (post autoclaving/heating) :		A) Basal medium – Cream to light yellow B) with addition of sterile defibrinated blood (15%) – cherry red			
Clarity (post autoclaving/heating) :		A : Clear to slightly opalescent B : Opaque			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 3-4 days at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		HAEMOLYSIS	
Bordetella bronchiseptica (4617)		Good – luxuriant		Gamma	
Bordetella pertussis (8467)		Good – luxuriant		Beta	
Bordetella parapertussis (10521)		Good – luxuriant		Gamma	
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. 2. Some Haemophilus species will grow on Bordetella isolation media and may cross – react with B. pertussis antisera. It may be prudent to rule out X and V factor dependence.					
Use :					
For detection and isolation of Bordetella pertusis and Bordetella parapertusis.					
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			
B431		36g/l		13.888L	
		6.7 ± 0.2		15 – 20% Sterile, fresh defibrinated blood (sheep, rabbit, human or horse)	
				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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