

**TECHNICAL SHEET**

<b>B118</b>	<b>BORDET GENGOU AGAR BASE (W/O SUPPLEMENT)</b>		
<b>Formula</b>			
<b>Ingredients :</b>	<b>gms/lit.</b>		
Potatoes infusion from	125.00		
Peptic digest of animal tissue	10.00		
Sodium chloride	5.50		
Agar	20.00		
Final pH (at 25°C) : 6.7 ± 0.2			
<b>Directions :</b>			
Suspend 40.00 grams in 1000 ml purified / distilled water containing 10 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add 15-20% sterile, fresh defibrinated blood (sheep, rabbit, human or horse). For selectivity aseptically add rehydrated contents of 2 vials of Bordetella Selective supplement (BF019). Mix thoroughly, taking care to avoid incorporation of air bubbles and pour into sterile Petri plates.			
<b>Principle :</b>			
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.			
<b>QC Tests – (I) Dehydrated Medium</b>			
Colour :	Cream to light yellow		
Appearance :	Homogeneous Free Flowing powder		
<b>(II) Rehydrated medium</b>			
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		
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed with added Glycerol and 15% v/v sterile defibrinated blood and Bordetella Selective Supplement (BF019), after an incubation at 35-37°C for 3-4 days.			
MICROORGANISM (ATCC )	GROWTH	HAEMOLYSIS	
Bordetella bronchiseptica (4617)	Good – luxuriant	Gamma	
Bordetella pertussis (8467)	Good – luxuriant	Beta	
Bordetella parapertussis (10521)	Good – luxuriant	Gamma	
Staphylococcus aureus (25923)	Inhibited	-	
<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 detection and isolation of Bordetella pertussis and Bordetella parapertussis.		
<b>Storage :</b>	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.		
<b>Packing :</b>	500 gm. bottle		

Refer disclaimer Overleaf

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<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B118</b>	40g/l	12.5L	6.7 ± 0.2	15 – 20% Sterile, fresh defibrinated blood (sheep, rabbit, human or horse) 2 vials of Bordetella Selective supplement (BF019)	121°C / 15 minutes

**Disclaimer:**

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