B951	**BRUCELLA AGAR BASE**
Formula	
Ingredients :	**gms/lit.**
Casein enzymic 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 gms in 500 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and asecptically add sterile 5% v/v inactivated horse serum, (Inactivate by heating at 56°C for 30 minutes.) and rehydrated contents of one vial of Brucella Selective Supplement. For isolation of Campylobacter species add rehydrated contents of 1 vial of Campylobacter Growth Supplement and 5-7% defibrinated sheep blood to 500 ml of medium. Mix well before pouring into sterile petriplates.

Principle :

Peptic digest of animal tissue provides nitrogen and amino acids and Casein enzyme hydrolysate provides nitrogen. Yeast Extract adds essential vitamins. Dextrose is a carbon source, Sodium Bisulfite enhances growth. Sodium Chloride maintains the osmotic balance. Agar is the solidifying agent in Brucella Agar. Supplement blood (5-10%) provides additional growth factors for fastidious microorganisms and is used to determine hemolytic reactions.

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) :	Light yellow	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 24 –72 hrs at 35-37°C under 10% CO_2.		
	MICROORGANISM (ATCC)	GROWTH	
	Brucella abortus (4315)	Luxuriant	
	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.
	2. Hemolytic reactions of many microorganisms are different on horse blood from those on sheep blood agar e.g., some Group D streptococci exhibit beta hemolysis on horse blood but not on sheep blood and are mistaken for Group A.
Use :	**B951:** For cultivation of Campylobacter 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
B951	43.1g/l	11.600L	7.0 ± 0.2	5% v/v inactivated horse serum, Brucella Selective Supplement	121^0C / 15 minutes