

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>PP003</b>	<b>Brucella Agar Plate with Hemin &amp; Vitamin K1</b>		
<b>Formula</b>			
<b>Ingredients:</b>	<b>gms/lit.</b>		
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		
Hemin	0.01		
Vitamin K1	0.01		
Sheep Blood	5.00		
Agar	15.00		
Final pH (at 25°C): 7.0 ± 0.2			
<b>Directions:</b>			
Label the ready to use plate (PP003). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.			
<b>Principle:</b>			
Casein enzyme hydrolysate and peptic digest of animal tissue provide organic nitrogen. Yeast extract offer source of Vitamin B complex and nitrogenous substances. Sodium chloride maintains osmotic balance and sodium bisulphate is reducing agent. Dextrose is energy source. Addition of blood provides nutrients and helps to differentiate hemolytic organisms. Presence of hemin and Vitamin K1 supports growth of other fastidious bacteria like Bacteroides species and gram-positive spore bearers like Clostridium species. Incubation is carried out anaerobically at 35°C for at least 48 hours; however, negative results should be reported only after incubation for 7 days.			
<b>(I) QC Tests</b>			
pH:	7.0 ± 0.2		
Color:	Red coloured medium.		
Appearance:	Sterile Brain Brucella agar w/hemin and vitamin K1 in 90X15mm disposable plates.		
<b>(II) Sterility test</b>			
Passes release criteria			
<b>(III) Q.C. Test Microbiological</b>			
Cultural characteristics observed after an incubation at 35-37°C for 24 - 48 hours under anaerobic conditions.			
MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	RECOVERY
Bacteroides fragilis 2528	50-100	luxuriant	>=50%
Clostridium perfringens 13124	50-100	luxuriant	>=50%

<b>Precautions :</b>	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
<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>	Used for the isolation and cultivation of Brucella species.
<b>Storage:</b>	Store between 2-8°C. Use before expiry date on the label.
<b>Packing:</b>	20/50 disposable plates.

**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 BIOMARK LABORATORIES publications.

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