

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B188</b>	<b>SPIRIT BLUE AGAR</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymic hydrolysate		10.00				
Yeast extract		5.00				
Spirit blue		0.15				
Agar		17.00				
Final pH (at 25°C) :		6.8 ± 0.2				
<b>Directions :</b>						
Suspend 32.15 grams in 1000 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 50°C and add 30 ml lipase substrate slowly while agitating to obtain an even distribution. Note :For proper lipase activity, it is recommended to use glass plates instead of disposable plastic plates.						
<b>Principle :</b>						
Casein enzymic hydrolysate and yeast extract in the medium are sources of carbon, nitrogen, vitamins and minerals. Spirit blue is a dye which acts as an indicator of lipolysis. The lipase reagents recommended as the lipid source are cotton seed meal, cream, olive oil etc						
<b>QC Tests - (I)Dehydrated Medium</b>						
Colour :		Cream to greenish yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II)Rehydrated medium</b>						
pH (post autoclaving/heating) :		6.8 ± 0.2				
Colour (post autoclaving/heating) :		a) Basal medium yields : Blue b) After addition of Lipase substrate : Lavender				
Clarity (post autoclaving/heating) :		a) Clear to slightly opalescent b) Slightly opalescent				
<b>(III)Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at 35-37°C for 48-72 hours with added Lipase substrate.						
MICROORGANISM (ATCC)		GROWTH	LIPASE ACTIVITY			
Proteus mirabilis (25933)		Luxuriant	Negative, absence of zone around colony			
Staphylococcus aureus (25923)		Luxuriant	Positive reaction, clear zone around colony			
Staphylococcus epidermidis (12228)		Luxuriant	Positive reaction, clear zone around colony			
<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 enumeration of lipolytic microorganisms.				
<b>Storage :</b>		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
<b>Packing :</b>		500 gm. bottle				
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B188</b>	32.15g/l		15.552L	6.8 ± 0.2	lipase substrate	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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