

**TECHNICAL SHEET**

<b>B594</b>	<b>MONSUR MEDIUM</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		10.00			
Sodium chloride		10.00			
Sodium taurocholate		5.00			
Sodium carbonate		1.00			
Gelatin		30.00			
Agar		15.00			
Final pH (at 25°C) : 8.5 ± 0.2					
<b>Directions :</b>					
Suspend 7.1 gms in 100 ml. distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 10lbs pressure at (115°C) for 20 minutes. Cool to 50°C. Aseptically add 0.5 ml. of sterile 1% Potassium Tellurite Solution. Mix well and pour into the desired containers.					
<b>Principle :</b>					
Casein enzymic hydrolysate supplies essential nutrients. Sodium taurocholate inhibits the contaminating gram – positive bacteria. Potassium tellurite is a selective and differential agent. It inhibits many gram – positive bacteria and due to the reduction of which the colonies form grey to black coloured. Sodium chloride maintains the osmotic equilibrium while sodium carbonate helps in maintaining the elevated pH of the medium. Gelatin acts as an additional carbon and energy source. Agar is the solidifying agent.					
<b>QC Tests – (I)Dehydrated Medium</b>					
	Colour :		Cream to yellow		
	Appearance :		Coarse, free flowing powder		
<b>(II)Rehydrated medium</b>					
	pH (post autoclaving/heating) :		8.5 ± 0.2		
	Colour (post autoclaving/heating) :		Cream to yellow		
	Clarity (post autoclaving/heating) :		Clear to slighty opalescent		
<b>(III) Q.C. Test Microbiological</b>					
	Cultural characteristics observed after 18- 48 hours at 35-37°C.				
	MICROORGANISM (ATCC )		GROWTH	COLOUR OF COLONY	
	Vibrio cholerae (15748 )		Good – luxuriant	Grey	
	Vibrio parahaemolyticus (17802 )		Good – luxuriant	Light grey	
	Proteus mirabilis (25933)		None – poor	Black	
<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 isolation of Vibrio cholerae and other Vibrio species from pathological samples.			
<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>B594</b>	71g/l		7.042 L	8.5 ± 0.2	1% Potassium Tellurite 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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.