

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B957</b>	<b>BUSHNELL HASS BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Magnesium sulphate		0.20			
Calcium chloride		0.02			
Monopotassium phosphate		1.00			
Dipotassium phosphate		1.00			
Ammonium nitrate		1.00			
Ferric chloride		0.05			
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 3.27 gms in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. A white precipitate prior to sterilization becoming yellow to orange after sterilization is normal.					
<b>Principle :</b>					
Magnesium Sulfate, Calcium Chloride, and Ferric Chloride provide trace elements necessary for bacterial growth. Ammonium Nitrate is a nitrogen source, while Monopotassium Phosphate and Dipotassium Phosphate provide buffering capability					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Beige with pink tint			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Light yellow to light amber			
Clarity (post autoclaving/heating) :		Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after upto one week at 25-30°C.					
MICROORGANISM (ATCC )		GROWTH(PLAIN)	GROWTH W/MINERALS		
Pseudomonas aeruginosa (9027)		Poor	Good-luxuriant		
Pseudomonas aeruginosa (27853)		Poor	Good-luxuriant		
<b>Precautions :</b>	<ol style="list-style-type: none"> <li>1. For Laboratory Use.</li> <li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li> <li>3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Blood, Liver, Nerves.</li> </ol>				
<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 studying hydrocarbon deterioration and for examination of fuels for microbial contamination.				
<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>B957</b>	3.27L	152.905L	7.0 ± 0.2	NIL	121°C / 15 minutes