

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B009</b>	<b>Y T BROTH</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Casein enzymic hydrolysate		16.00			
Yeast extract		10.00			
Sodium chloride		5.00			
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 31.0 gms. in 1000ml. distilled water. Heat gently to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
<b>Principle :</b>					
YT Broth is a nutritionally rich growth medium containing Casein enzymic hydrolysate and yeast extract which supply nitrogenous compounds, vitamin B complex and other essential nutrients and co-factors necessary for the luxuriant growth of recombinant E.coli. Sodium chloride helps in maintaining the isotonic conditions in the medium.					
<b>QC Tests -</b>					
<b>(I) Dehydrated Medium</b>					
Colour :		Light yellow to beige			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Light amber			
Clarity (post autoclaving/heating) :		Clear			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 18 - 24 hrs at 35 °C.					
MICROORGANISM (ATCC )		GROWTH			
Escherichia coli (25922)		Good - luxuriant			
Escherichia coli (53868)		Good - luxuriant			
<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 the cultivation of recombinant of Escheria coli.					
<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>B009</b>	31 g/l	16.12 L	7.0 ± 0.2	Nil	121°C/15 min.

**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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