

**TECHNICAL SHEET**

<b>B587</b>	<b>MODIFIED LETHEEN BROTH (LETHEEN BROTH, MODIFIED)</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptic digest of animal tissue		20.00				
Casein enzymic hydrolysate		5.00				
Meat extract B#		5.00				
Yeast extract		2.00				
Sodium chloride		5.00				
Sodium bisulphite		0.10				
Lecithin		0.70				
Polysorbate 80		5.00				
# Equivalent to beef extract						
Final pH (at 25°C) : 7.0 ± 0.2						
<b>Directions :</b>						
Suspend 42.8 gms. of 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in tubes & Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.						
<b>Principle :</b>						
Peptic digest of animal tissue, casein enzymic hydrolysate, meat extract B and yeast provide nitrogenous nutrients, carbon compounds, sulphur, trace elements and vitamin B complex to the microorganisms. Incorporation of lecithin and polysorbate 80 to the medium enables the recovery of bacteria from materials containing residues of disinfectant compounds or preservatives used in cosmetics. Lecithin also neutralizes quaternary ammonium compounds present in the cosmetics. Sodium chloride maintains the osmotic balance of the medium.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Cream to yellow				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		7.0 ± 0.2				
Colour (post autoclaving/heating) :		Yellow				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 24 –48 hours at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH				
Escherichia coli (25922)		Luxuriant				
Staphylococcus aureus (6538)		Good to luxuriant				
Staphylococcus aureus (25923)		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 screening cosmetic products for microbial contamination as per FDA.				
<b>Storage :</b>		Dehydrated medium and 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>B587</b>	42.8 g/l	11.68 lit	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 BIOMARK LABORATORIES publications.

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