

**TECHNICAL SHEET**

<b>B1069</b>	<b>IUT MEDIUM BASE</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
L-asparagine		3.60			
Monopotassium phosphate		2.46			
Magnesium sulphate		0.24			
Magnesium citrate		0.60			
Malachite green	0.40				
Final pH (at 25°C) : 7.0 ± 0.2					
<b>Directions :</b>					
Suspend 7.3 gms in 600 ml distilled water containing 12 ml glycerol. If necessary, heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 1 litre of sterile whole egg emulsion, prepared under aseptic conditions. Mix well and dispense in screw capped containers. Sterilize by inspissation at 85°C for 1 hour.					
<b>Principle :</b>					
This medium is recommended by the International Union Against Tuberculosis for the diagnosis of mycobacterial infections. It differs from Lowenstein – Jensen medium since it does not contain potato flour / starch. It is reported to be giving higher proportion of positives. The medium supports rapid and luxuriant growth of primary cultures. Malachite green inhibits the growth of other bacteria and also acts as a pH indicator. L-Asparagine serves as a source of nutrients. Inorganic salts provide ions for the metabolism of Mycobacteria.					
<b>QC Tests - (I) Dehydrated Medium</b>					
Colour :		Peacock blue			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.0 ± 0.2			
Colour (post autoclaving/heating) :		Basal medium + whole egg emulsion : Pale blue			
Clarity (post autoclaving/heating) :		Opaque			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 2-4 weeks at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH			
Mycobacterium tuberculosis (25618)		Luxuriant			
Mycobacterium smegmatis (14468)		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 cultivation of Mycobacterium tuberculosis.					
<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>B1069</b>	7.30 g/l	68.49 L	7.0± 0.2	Sterile whole egg emulsion	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.

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.