

**TECHNICAL SHEET**

<b>B1087</b>	<b>KIRSCHNER MEDIUM BASE, MODIFIED</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Disodium phosphate		3.00			
Monopotassium phosphate		4.00			
Magnesium sulphate		0.60			
Sodium citrate	2.50				
L-asparagine		5.00			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions :</b>					
Suspend 15.1 gms.in 700ml. distilled water. Add 200 ml glycerol. Heat to boiling to dissolve the medium completely. Dispense in 9 ml aliquots. Sterilize by autoclaving at 10 lbspressure (115°C) for 15 minutes. Just before use, aseptically add 1 ml of Horse serum (BF021) and 100 IU Penicillin per 9ml medium.					
<b>Principle :</b>					
Kirschner medium contains two phosphates, a sulphate and citrate which buffers the medium well. Hence direct inoculum can be adopted without any neutralization. L-asparagine in the medium supports the growth of Mycobacterium tuberculosis as it is a good nutrient for the organism. Horse serum also promotes the growth of the organism. Penicillin inhibits the growth of contaminating bacteria.					
<b>QC Tests - (I)Dehydrated Medium</b>					
Colour :		White			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Colourless			
Clarity (post autoclaving/heating) :		Slight white			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed after 2-4 weeks at 35-37°C.					
MICROORGANISM (ATCC )		GROWTH			
Mycobacterium tuberculosis H37 RV (25618)		Luxuriant			
Mycobacterium smegmatis (14468)		Luxuriant			
Mycobacterium fortuitum (6841)		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> </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 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>B1087</b>	15.1g/l	33.11L	7.4 ± 0.2	Horse serum (BF021) +100IU Penicillin +Glycerol	115°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.

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