

**TECHNICAL SHEET**

<b>B1217</b>		<b>M-TEC AGAR</b>			
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		5.00			
Yeast extract		3.00			
Lactose		10.00			
Dipotassium phosphate		3.30			
Monopotassium phosphate		1.00			
Sodium deoxycholate		0.10			
Sodium lauryl sulphate		0.20			
Sodium chloride		7.50			
Bromocresol purple		0.08			
Bromophenol red		0.08			
Agar		15.00			
Final pH (at 25°C) : 7.3 ± 0.2					
<b>Directions :</b>					
Suspend 45.30 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilise by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
<b>Principle :</b>					
M-TEC Agar contains sufficient nutrients to support the growth of E.Coli. Peptone is a source of nitrogen, aminoacids & carbon yeast extract provides trace elements, vitamins and amino acids. Potassium phosphate. Monobasic and Dibasic offer buffering capabilities. Lactose is a fermentable carbohydrate and carbon source. Sodium lauryl sulphate & sodium deoxycholate are selective against gram positive bacteria. Bromo cresol purple & Bromo phenol red are indicator components & agar is the solidifying agent.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Greyish tan			
Appearance :		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.3 ± 0.2			
Colour (post autoclaving/heating) :		Deep purple w/reddish cast			
Clarity (post autoclaving/heating) :		Slightly opalescent			
<b>(III) Q.C. Test Microbiological</b>					
Cultural characteristics observed after 22 ± 2 hrs at 44.5 ± 0.5°C.					
MICROORGANISM (ATCC )		GROWTH	APPEARANCE *		
E. coli (8739)		Good	Yellow to yellow brown colonies.		
Key : on filters placed over pads saturated w/ 2ml. urease substrate.					
<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 differentiating and rapidly enumerating thermotolerant Escherichia coli from water by membrane filtration.			
<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
<b>B1217</b>		45.3g/l	11.037L	7.3 ± 0.2	NIL
					121°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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