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TECHNICAL SHEET

B584 I	MOTILITY MEDIL	JM S
Formula		
Ingredients:	gms/	lit.
Meat heart,infusion	on from 500	.00
Tryptose	10	.00
Gelatin	30	.00
Sodium chloride	5	.00
Dipotassium phos	sphate 2	.00
Potassium nitrate	. 2	.00
Agar	1	.00
Final pH (at 25°C	(): 7.3 <u>+</u> 0.2	•

Directions:

Suspend 60 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121° C) for 15 minutes. Cool to 45-50°C & add 1% solution of 2,3,5-Triphenyl Tetrazolium Chloride. Mix well & dispense in sterile tubes.

Principle:

Infusion from Meat Heart, Gelatin and Tryptose provide nitrogen, vitamins and amino acids to support growth of fastidious microorganisms. Sodium Chloride maintains the osmotic balance of the medium and also induces the swarming of Proteus species. Dipotassium Phosphate provides buffering capability and has been shown to have a stimulatory effect on the motility of Proteus species. Potassium Nitrate provides trace elements necessary for bacterial growth. Organisms capable of reducing nitrate, especially nitrate reducing obligate aerobes, exhibit increased motility in the presence of 0.2% Potassium Nitrate. Agar is a solidifying agent at a concentration that preserves the line of inoculation. TTC (2,3,5 - triphenyltetrazolium chloride) facilitates the detection of motility. Growth along or out from the stab line is made readily visible because formazan precipitates when TTC is reduced by a microorganism

because formazan precipitates when TTC is reduced by a microorganism.												
QC	QC Tests - (I)Dehydrated Medium											
	Colour:			Cream t	Cream to yellow							
	Appearance :				Coarse, free flowing powder							
(II)Rehydrated medium												
	pH (post autoclaving/heating) :				7.3 ± 0.2							
	Colour (post autoclaving/heating):				Light to medium yellow							
	Clarity (post autoclaving/heating):			Slighty	Slighty opalescent							
(II	I) Q.C. Test	Microbiologic	al									
	Cultural characteristics observed after 18- 48 hours at 35-37°C.											
	MICROORGANISM (ATCC) G			GROWTH		MOT	TILITY	TTC REDUCTION	ON			
			_uxuriant			+	+					
	Escherichia coli (25922) L			_uxuriant			+	+				
	Klebsiella pneumoniae (13883) Lu			_uxuriant			-	+				
				uxuriant			-	+				
	Key: * = motility is temperature depend											
		ent at 35°C and		: 20°C.								
Precautions:		1. For Laboratory Use.										
		2. Follow proper, established laboratory procedures in handling and disposing of infectious										
	materials.											
Lin			. Since the nutritional requirements of organisms vary, some strains may be encountered									
					orly on this medium.							
Use												
	prage: Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. cking: 500 gm. bottle											
	cking:											
	oduct	Reconstitution Quantity or			pH (25°C)		Supplement		Sterilization			
profile:			Preparatio						0			
B5	84	60g/l	8.33	3L	7.3 ±		2,3,5-Tri	,	121°C / 15			
							retrazoli	um Chloride	minutes			

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