

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1402</b>	<b>RAPPAPORT VASSILIADIS SEMISOLID MEDIUM MODIFIED(MSRV)</b>				
<b>Formula</b>					
<b>Ingredients:</b>		<b>gms/lit.</b>			
Tryptose		4.590			
Tryptone		4.590			
Sodium chloride		7.340			
Potassium dihydrogen phosphate		1.470			
Magnesium chloride, anhydrous		10.930			
Malachite green oxalate		0.037			
Agar		2.700			
Final pH (at 25°C) : 5.2 ± 0.1					
<b>Directions:</b>					
Suspend 31.66 grams in 1000 ml distilled water. Heat to boiling with frequent agitation to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and aseptically add the rehydrated contents of 1 vial of Novobiocin Selective Supplement (BF163). Mix well and pour into sterile Petri plates. Air dry the plated medium at room temperature for at least one hour.					
<b>Principle:</b>					
Tryptose, tryptone provide the nitrogenous and carbonaceous substances and other essential growth nutrients. Phosphate gives good buffering capacity to the medium. Malachite green oxalate and Novobiocin inhibits many gram-positive bacteria.					
<b>QC Tests – (I)Dehydrated Medium</b>					
Colour :		Light yellow to light blue			
Appearance:		Homogeneous Free Flowing powder			
<b>(II)Rehydrated medium</b>					
pH (post autoclaving/heating) :		5.2 ± 0.2			
Colour (post autoclaving/heating):		Greenish blue			
Clarity (post autoclaving/heating):		Clear to slightly opalescent			
<b>(III)Q.C. Test Microbiological</b>					
Cultural characteristics observed after an incubation at 42-43°C for 18-24 hours with added Novobiocin Selective Supplement (BF163).					
MICROORGANISM (ATCC)		GROWTH AT 42±1°C		MOTILITY	
Salmonella enteritidis (13076)		Good-luxuriant		Positive reaction, colourless to light pink zone	
Salmonella typhi (6539)		Good-luxuriant		Positive reaction, colourless to light pink zone	
Salmonella typhimurium (14028)		Good-luxuriant		Positive reaction, colourless to light pink zone	
Escherichia coli (25922)		None – poor		Negative reaction, no colour change	
Citrobacter freundii (8090)		None – poor		Negative reaction, no colour change	
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.			
<b>Limitations :</b>		1. Due to variable nutritional requirements, some strains show poor growth on this medium. 2. The plates should be incubated in upright and steady position as medium contains less agar.			
<b>Use:</b>		For the detection of motile Salmonella species from food, faeces and environmental specimens.			
<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>B1402</b>	31.66 g/l	15.792 L	5.2± 0.2	BF163	Nil