

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B628</b>	<b>MODIFIED RAPPAPORT VASSILIADIS MEDIUM</b>					
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Peptone from soyabean		5.00				
Sodium chloride		8.00				
Monopotassium phosphate		1.60				
Magnesium chloride, 6H <sub>2</sub> O		40.00				
Malachite green		0.04				
Final pH (at 25°C) : 5.2 ± 0.2						
<b>Directions :</b>						
Suspend 30.07 grams of dehydrated medium in 1000 ml distilled water. Heat gently if necessary, to dissolve the medium completely. Dispense as desired into tubes and sterilize by autoclaving at 115°C for 15 minutes.						
<b>Principle :</b>						
Peptone from soyabean provides essential growth nutrients. It is used to enhance the growth of Salmonella. Potassium phosphate buffers the medium to maintain the constant pH. Sodium chloride maintains the osmotic balance. Malachite green is a dye which 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) :		Blue				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after an incubation at different temperatures for 24-48 hours, when subcultured on Brilliant Green Agar Base (B123) and then incubated at 35-37°C for 18-24 hours.						
MICROORGANISM (ATCC )		AT 37°C	AT 42 ± 1°C	COLOUR OF COLONY		
Salmonella typhimurium (14028)		Luxuriant	Luxuriant	pink white		
Salmonella paratyphi B		Good	Good	pink white		
Salmonella typhi ( 6539 )		Fair – good	Fair	pink red		
Escherichia coli (25922)		Fair	Poor	yellowish green		
Salmonella Enteritidis (13076)		Luxuriant	Luxuriant	pink white		
<b>Precautions :</b>		1. For Laboratory Use.				
		2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
		3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Nerves, Kidneys.				
<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 isolation of Salmonella species from food 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>B628</b>	30.07 g/l	16.627 L	5.2 ± 0.2	NIL	115°C / 15 minutes	