

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1495	MODIFIED RAPPAPORT VASSILIADIS MEDIUM					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		5.00				
Sodium chloride		8.00				
Monopotassium phosphate		1.60				
Magnesium chloride 6H ₂ O		40.00				
Malachite green		0.04				
Final pH (at 25°C) : 5.2 ± 0.2						
Directions :						
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 10 lbs pressure (115°C) for 15 minutes.						
Principle :						
Casein enzymic hydrolysate meal 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.						
QC Tests – (I) Dehydrated Medium						
Colour :		Light yellow to light blue				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		5.2 ± 0.2				
Colour (post autoclaving/heating) :		Blue				
Clarity (post autoclaving/heating) :		Clear				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at specified temperature for 24-48 hours.						
MICROORGANISM (ATCC)		AT 37°C	AT 42 ± 1°C			
Salmonella typhimurium (14028)		Luxuriant	Luxuriant			
Salmonella paratyphi B		Good	Good			
Salmonella typhi (6539)		Fair – good	Fair			
Escherichia coli (25922)		Fair	Poor			
Precautions :		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.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For isolation of Salmonella species from food and environmental specimens. Recommended by International Organization for Standardization (ISO), 1993, Draft ISO/DIS 6579				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B1495	30.07 g/l	16.627 L	5.2 ± 0.2	NIL	115°C / 15 minutes	