

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>B1401</b>	<b>RAPPAPORT VASSILIADIS SOY (RVS) BROTH</b>		
<b>Formula</b>			
<b>Ingredients:</b>	<b>gms/lit.</b>		
<b>ISO Specification - RVS Broth</b>		<b>B1401-RAPPAPORT VASSILIADIS SOY (RVS) BROTH</b>	
Ingredients	g / L	Ingredients	g / L
Enzymatic digest of soya	4.500	Soya peptone #	4.50
Sodium chloride	7.2	Sodium chloride	7.20
Potassium dihydrogen phosphate (KH2PO4 + K2HPO4)	1.440	Monopotassium phosphate	1.26
Magnesium chloride, hexahydrate	28.600	Dipotassium phosphate	0.18
Malachite green , oxalate	0.036	Magnesium chloride, hexahydrate	28.60
Final pH (after sterilization)	5.2±0.2	Malachite green oxalate	0.036
		Final pH (after sterilization)	5.2±0.2
		# - Equivalent to enzymatic digest of soya	
Final pH (at 25°C) : 5.2 ± 0.2			
<b>Directions :</b>			
Suspend 26.58 grams (grams equivalent weight of dehydrated medium per litre) in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired into tubes or flasks and sterilize by autoclaving at 10 lbs pressure (115°C) for 15 minutes.			
<b>Principle :</b>			
The medium contains soya peptone which provides essential growth nutrients. Magnesium chloride raises the osmotic pressure in the medium. Malachite green is inhibitory to organisms other than Salmonellae. The low pH of the medium, combined with the presence of malachite green and magnesium chloride, helps to select for the highly resistant Salmonella species. Phosphates buffer the medium to maintain the constant pH. Sodium chloride maintains the osmotic balance.			
<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 incubation at 41.5°C ± 1°C for 18-24 hours. Further subculture is carried out on XLD Agar (B361) and incubated at 37±1°C for 18-24 hours.		
	<b>MICROORGANISM (ATCC )</b>	<b>Colour of colony on XLD Agar (B361)</b>	
	Salmonella Enteritidis ATCC 13076	red colonies w/ black center	
	Salmonella Typhimurium ATCC 14028	red colonies w/ black center	
	Escherichia coli ATCC 25922	partial inhibition	
	Enterococcus faecalis ATCC 19433	partial inhibition	
<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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium 2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user’s unique requirement.		
<b>Use :</b>	Recommended as selective enrichment medium for the isolation of Salmonella species. The composition and performance criteria of this medium are as per the specifications laid down in ISO 6579-1:2017, Amd. 2020/ ISO 19250:2010 and ISO 11133:2014 (E) /Amd. :2020.		
<b>Storage :</b>	Dehydrated medium- Below 30°C Prepared medium– Between 2 - 8°C.		
<b>Packing :</b>	500 gm. bottle		

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<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1401</b>	26.58 g/l	18.825 L	5.2 ± 0.2	Nil	10 lbs ,115°C/15 min.

**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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