#### **BIOMARK Laboratories-INDIA**

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## **TECHNICAL SHEET**

B1402	Modified Semisolid Rappaport Vassiliadis MediumBase (MSRV)
Formula	
Ingredients:	gms/lit.

ISO Specification – MSRV		B1402- Modified Semisolid Rappaport Vassiliadis MediumBase (MSRV)		
Ingredients	g/L	Ingredients	g/L	
Enzymatic digest of animal and plant tissue	4.600	Tryptose	4.600	
Acid hydrolysate of casein	4.600	Acid hydrolysate of casein (tryptone)	4.600	
Sodium chloride	7.300	Sodium chloride	7.300	
Potassium dihydrogen phosphate (K2HPO4)	1.500	Potassium dihydrogen phosphate	1.500	
Magnesium chloride, hexahydrate	40.000	Magnesium chloride, anhydrous	10.930	
(MgCl2 6H2O)				
Malachite green oxalate	0.040	Malachite green oxalate	0.040	
Agar	2.700	Agar	2.700	
Final pH ( after sterilization) at 20-25°C	5.10- 5.40	Final pH (at 25°C)	5.2 ± 0.2	

Final pH (at 25°C) : 5.2 <u>+</u> 0.2

#### **Directions:**

Suspend 31.66 gram in 1000 ml purified/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) or 4 vials of Novobiocin supplement (BF083). Mix well and pour into sterile Petri plates. Air dries the plated medium at room temperature for at least one hour.

Note: The motility of Salmonellas can be drastically reduced when the agar surface becomes too dry. Hence the plates should be well dried before use. If visible moisture occurs on the lid of the plates or the surface of agar, it must be removed. While incubation, incubate the plates aerobically in an upright position for no longer than 24 hours at 42°C

## Principle:

Acid hydrolysate of casein and Enzymatic digest of animal and plant tissue provides the nitrogenous and carbonaceous substances, long chain amino acids, vitamins and other essential growth nutrients. The motility of other gram positive microorganisms is largely inhibited by the selective agents (magnesium chloride, malachite green and novobiocin). Sodium chloride maintains osmotic balance. Phosphate buffers the medium. The working of medium is based on the ability of Salmonella species to migrate in the selective medium competing with the other motile organisms, thus producing opaque halos of growth. The motile bacteria will show a halo or zone of growth originating from inoculation spot

QC Test	s – (I)Dehydrated Medium	
	Colour:	Light yellow to light blue
	Appearance:	Homogeneous Free Flowing powder
(II)Rehy	drated medium	
	pH (post autoclaving/heating):	$5.2 \pm 0.2$
	Colour (post autoclaving/heating):	Greenish blue to Blue
	Clarity (post autoclaving/heating):	Clear to slightly opalescent semisolid gel forms in Petri plates which may have a slight precipitate.
(III)Q.0	C. Test Microbiological	
		1

Cultural characteristics observed after incubation at 42-43°C for 18-24 hours with added Novobiocin Selective Supplement (BF163) or Novobiocin supplement (BF083).

MICROORGANISM (ATCC) GROWTH AT 42±1°C

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Salm	Salmonella enteritidis (13076)		Positive Gre	Positive Grey-white, turbid zone extending out from inoculated drop				
	Salmonella typhimurium (14028)		Positive Gre	Positive Grey-white, turbid zone extending out from inoculated drop				
Esch	Escherichia coli (25922)		Possible gro turbid zone	Possible growth at the place of the inoculated drop(s) without a				
		Possible gro turbid zone	Possible growth at the place of the inoculated drop(s) without a turbid zone					
Ente	Enterococcus faecalis ATCC			No growth				
Ente	Enterococcus faecalis ATCC			No growth				
<b>Precautions:</b> 1. For Laboratory Us								
	2. Follow	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
Limitations		The medium is int letection of non- m			Salmonella and	d is not appropriate for the		
Hence the plate plates or the			monellas can be drastically reduced when the agar surface becomes too dry. could be well dried before use. If visible moisture occurs on the lid of the ce of agar, it must be removed. While incubation, incubate the plates right position for no longer than 24 hours at 42°C.					
3. Individual organisms differ in their growth requiremen								
		in the medium						
	4. F	4. 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.						
		Further biochemica						
Use:	Recommended for selective enrichment and isolation of Salmonella from food stuffs and environmental samples from the food production area. The composition and performance criteria of this medium are as per the specifications laid down in ISO 6579-1:2017 and ISO 11133:2014 (E) /Amd.: 2020.							
Storage:		Dehydrated medium- below 30 ° C Prepared mediums – Between 2 to 8°C.						
Packing:	500 gm.							
Product profil	e: Reconstit		Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization		
B1402	39.47 g/l		12.667/ L	5.2 <u>+</u> 0.2	BF163 or BF083	DO NOT AUTOCLAVE		

#### 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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