

**TECHNICAL SHEET**

<b>B210</b>	<b>SERRATIA DIFFERENTIAL MEDIUM (SD MEDIUM) (TWIN PACK)</b>			
<b>Formula</b>				
<b>Ingredients :</b>			<b>gms/lit.</b>	
<b>Part A</b>				
L-Ornithine				10.00
Yeast extract				10.00
Sodium chloride				5.00
Triclosan (Irgasan)				0.01
Bromothymol blue				0.02
Phenol red				0.01
Agar				4.00
<b>Part B</b>				
L-Arabinose				10.00
Final pH (at 25°C) : 6.7 ± 0.2				
<b>Directions :</b>				
Suspend 2.9 grams of Part A in 92 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Suspend 1.0 gm of Part B in 10 ml distilled water. Mix well to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Add sterile solution of Part B aseptically to previously sterile and cooled (45-50°C) Part A. Mix thoroughly and distribute into tubes. Allow the tubes to cool in an upright position.				
<b>Principle :</b>				
Yeast extract provides essential growth nutrients. L-arabinose is the fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium while bromothymol blue and phenol red act as pH indicators of decarboxylation and fermentation respectively. Triclosan inhibits gram-negative enteric bacteria other than Serratia species.				
<b>QC Tests - (I) Dehydrated Medium</b>				
Colour :	Part A : Light yellow to pink Part B : White to cream			
Appearance :	Part A & B : Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>				
pH (post autoclaving/heating) :	6.7 ± 0.2			
Colour (post autoclaving/heating) :	Greenish yellow			
Clarity (post autoclaving/heating) :	clear to slightly opalescent semisolid gel			
<b>(III) Q.C. Test Microbiological</b>				
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours				
MICROORGANISM (ATCC )	GROWTH	FERMENTATION (L-ARABINOSE)	ORNITHINE DECARBOXYLATION	COLOUR
Serratia liquifaciens (27592)	good-luxuriant	positive reaction, acid production, yellow colour	positive reaction, purple colour	purple band at the top of greenish yellow butt
Serratia marcescens (8100)	good-luxuriant	negative reaction, no colour change	positive reaction, purple colour	purple throughout the medium
Serratia rubidaea (27593)	good-luxuriant	positive reaction, acid production, yellow colour	negative reaction, yellow colour	yellow throughout the medium
<b>Precautions :</b>		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.		
<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.		

Refer disclaimer Overleaf

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<b>Use :</b>	It is recommended for the cultivation and differentiation of Serratia species on the basis of arabinose fermentation and ornithine decarboxylation.				
<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>B210</b>	39.04g/l	12.80 L	6.7 ± 0.2	Nil	121°C/15 minutes.

**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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