B210	SERRATIA DIFFERENTIAL MEDIUM (SD MEDIUM) (TWIN PACK)
Formula	
Ingredients :	**gms/lit.**
Part A	-
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
Part B	-
L-Arabinose	10.00

Final pH (at 25°C) : 6.7 ± 0.2

Directions :

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 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.

Principle :

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.

QC Tests – (I)Dehydrated Medium		
	Colour :	Part A : Light yellow to pink Part B : White to cream
	Appearance :	Part A & B : Homogeneous Free Flowing powder
(II)Rehydrated medium		
	pH (post autoclaving/heating) :	6.7 ± 0.2
	Colour (post autoclaving/heating) :	Greenish yellow
	Clarity (post autoclaving/heating) :	clear to slightly opalescent semisolid gel
(III)Q.C. Test Microbiological		

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

Precautions :	1. For Laboratory Use.
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.
Limitations :	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

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