## **BIOMARK Laboratories-INDIA**

## www.biomarklabs.com

## **TECHNICAL SHEET**

B208 IRON SULPHITE AGAR	208 IRON SULPHITE AGAR		
Formula			
Ingredients: gms/lit.			
	asein enzymic hydrolysate 10.00		
	0.50		
	0.50		
	15.00		
Final pH (at 25°C): 7.1 <u>+</u> 0.2			
Directions :			
Suspend 26 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by			
autoclaving at 15 lbs pressure (121°C) for 15 minutes.			
Principle:			
Iron sulphite Agar is a modification of Cameron Sulphite Agar developed by the National Canners			
Association of America. It was shown by Beerens that 0.1% sulphite concentration in the original			
formula was inhibitory to some strains of Clostridium sporogenes. This observation was later on			
confirmed by Mossel et al, who consequently showed that 0.05% sulphite concentration was not			
inhibitory to the organisms. Casein enzymic hydrolysate provides nitrogen and other nutrients			
necessary to support bacterial growth. Sulphite-reducing bacteria usually produce black colonies as			
a result of the reduction of sulphite to sulphide, which reacts with the iron (III) salt.			
QC Tests - (I)Dehydrated Medium			
Colour:	Light yellow t	Light yellow to brownish yellow	
Appearance :	Homogeneous Free Flowing powder		
(II)Rehydrated medium			
pH (post autoclaving/heating):	$7.1 \pm 0.2$		
Colour (post autoclaving/heating):	Light to medium yellow		
Clarity (post autoclaving/heating):	Slightly opalescent		
(III)Q.C. Test Microbiological			
Cultural characteristics observed after	24- 48 hrs at	55-56°C under anaerobic conditions.	
MICROORGANISM (ATCC )	GROWTH	COLOUR OF COLONIES	
Clostridium sporogenes (19404)	Luxuriant	Black	
Clostridium botulinum (25763)	Luxuriant	Black	
Clostridium butyricum (13732)	Luxuriant	Black	
	Luxuriant	Black	
(19853)			
Escherichia coli (25922)	Good	No blackening	
	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.			

## Disclaimer:

**B208** 

Storage: Packing:

Product profile:

in food.

26.0 g/l

500 gm. bottle Reconstitution

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.

Quantity on

19.23 L

Preparation (500g)

Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.

pH (25°C)

 $7.1 \pm 0.2$ 

Supplement

Nil

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Sterilization

121°C/15 min.