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B1808	B1808 Modified Iron Sulphite agar Base (ISA)ISO								
Formula									
Ingredients :	gm	s/lit.							
Casein enzymic hydrolysa	0	000							
Sodium sulphite	0.5								
Yeast extract		000							
Agar	15.								
Final pH (at 25°C) : 6.9 +	0.2								
Directions :									
	Suspend 20.25 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by								
	autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add rehydrated contents of 1 vial of								
Iron Sulphate Supplement	(BF170).								
Principle :									
	The medium contains casein enzymic hydrolysate and yeast extract, which act as sources of nitrogen, carbon, vitamins and								
	minerals. Reduction of sulphite and precipitation of the resultant sulphide as a black deposit involves an appropriate iron								
salt that yields iron sulphide. The reaction is seen as a black halo around each colony. Inclusion of a fermentable									
carbohydrate in the medium can lead to a rapid fall in pH during bacterial growth and failure to precipitate the sulphide.									
Clostridia grow to form black colonies in an anaerobic environment.									
2C Tests – (I)Dehydrated Medium		<u>Care and to and</u>	0 11						
	Colour :		Cream to yellow						
Appearance	ce:	Homogeneou	Homogeneous Free Flowing powder						
(II)Rehydrated medium									
pH (post autoclaving/heating) :		$6.9 \pm 0.2$							
Colour (post autoclaving/heating) :		Yellow to amber							
Clarity (post autoclaving/heating) :		clear to slightly opalescent gel forms in Petri plates							
(III)Q.C. Test Microbiolo	gical								
Cultural c	Cultural characteristics observed with added Iron Sulphate Supplement (BF170) after an incubation at 35								
37°C for 2	24-48 hours								
MICROO	RGANISM (ATCC )	GROWTH	BLACKENING						
Clostridiun	n perfringens ATCC 10543	Good	Positive						
Clostridiun	n perfringens ATCC 13124	Good	Positive						
Clostridiun	n botulinum	Good	Positive						
Escherichia	a coli ATCC 25922	Fair	Negative						
Pseudomor	as aeruginosa ATCC	Poor	Negative						
27853	-								
Bacillus ce	reus ATCC 11778	Poor	Negative						
Precautions: 1. For La									
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.								
	or grow poorly on this medium.								
	Modified Iron Sulphite Agar Base is recommended for the detection and enumeration of clostridia in meat								
	and meat products.								
	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.								
Packing : 500 gm. b	500 gm. bottle								

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Product	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization
profile:		Preparation (500g)			
B1808	40.5 g/l	12.345/L	$6.9 \pm 0.2$	Iron Sulphate	121°C/15 min.
				Supplement	
				(BF170)	

## 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. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.