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B1270 TRIPLE S	UGAR IRON AG	AR (AS PER I	.P.)					
Formula		•	-					
Ingredients:	gms/lit.							
Peptone	20.00							
Beef extract	3.00							
Yeast extract	3.00							
Lactose	10.00							
Sucrose	10.00							
Dextrose monohydrate	1.00							
Ferrous sulphate	0.20							
Sodium chloride Sodium thiosulphate	5.00 0.30							
Phenol red	0.024							
Agar	12.00							
Final pH (at 25°C) : 7.4 <u>+</u> 0.								
Directions :								
Suspend 64.42 grams (the equiv	alent weight of	dehvdrated me	dium per	litre) in 1	000 ml	purified/		
distilled water. Heat to boiling to								
tubes and Sterilize by maintaini	ng at 10lbs pres	ssure (115°C)	for 30 mi	nutes or	as per v	alidated		
cycle. Allow the medium to set in								
Principle :								
Peptone, yeast extract and beef								
and vitamin B complex etc. Sod								
dextrose monohydrate are the								
ferrous ions make H2S indicator								
can minimize its toxicity in the te pH indicator.	esting sample, if	any during mi	crobial lin	lit tests. I	Phenol re	ea is the		
QC Tests – (I)Dehydrated Mediur	<b>m</b>							
Colour :		Light yellow to pink						
	Lig							
Appearance :	Но	Homogeneous Free Flowing powder						
(II)Rehydrated medium								
PH (post autoclaving/heating) : $7.4 \pm 0.2$								
Colour (post autoclaving/heat	ing): Pin	Pinkish red						
Clarity (post autoclaving/heat		Clear to slightly opalescent						
(III)Q.C. Test Microbiological								
Cultural characteristics observ		hrs. at 35- 379	°C.					
MICROORGANISM (ATCC )		GROWTH	SLANT	BUTT	GAS	H <sub>2</sub> S		
Citrobacter freundii (8090)		Luxuriant	A	A	+	+		
Enterobacter aerogenes (1304	18)	Luxuriant	A	A	+	-		
Escherichia coli (25922)	10)	Luxuriant	A	A	+			
Escherichia coli (8739)		Luxuriant	A	A		_		
· · ·			-		+	-		
Klebsiella pneumoniae (13883	5)	Luxuriant Luxuriant	A	A	+	-		
Proteus vulgaris (13315)	,		K	A	-	+		
Salmonella paratyphi A		Luxuriant	K	A	+	-		
Salmonella typhi ( 6539 )		Luxuriant	K	A	-	+		
Salmonella typhimurium (14028)		Luxuriant	К	A	+	+		
Shigella flexneri (12022) Refer Disclaimer overleaf		Luxuriant	K	A	-	-		

Refer Disclaimer overleaf

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Key : A = acidic,	yellow K = alka	line, no change						
	= blackening (H <sub>2</sub> S), positive reaction							
- = no rea	eaction.							
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.							
	<ol> <li>Hydrogen sulfide production may be evident on Kligler Iron Agar but negative on Triple Sugar Iron Agar. Studies by Bulmash and Fulton showed that the utilization of sucrose could suppress the enzymatic mechanisms responsible for H<sub>2</sub>S production. Padron and Dockstader found that not all H<sub>2</sub>S – positive Salmonella are positive on TSI.</li> <li>Sucrose is added to TSI to eliminate some sucrose – fermenting non – lactose fermenters such as Proteus and Citrobacter spp.</li> <li>Further biochemical tests and serological typing must be performed for definite identification and confirmation of organisms.</li> <li>Do not use an inoculating loop to inoculate a tube of Triple Sugar Iron Agar. While stabbing the butt, mechanical splitting of the medium occurs, causing a false positive result for gas production.</li> <li>A pure culture is essential when inoculating Triple Sugar Iron Agar. If inoculated with a mixed culture, irregular observations may occur.</li> <li>Tubes should be incubated with caps loosened. This allows a free exchange of</li> </ol>							
	air, which is necessary to enhance the alkaline condition on the slant.							
Use :	It is recommended for identification of gram-negative enteric bacilli on the basis of dextrose, lactose and sucrose fermentation and hydrogen sulphide production in accordance with Indian Pharmacopoeia.							
Storage :	Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.							
Packing :	500 gm. bottle							
Product profile:		Quantity on Preparation (500g)	рН (25°С)	Supplement	Sterilization			
B1270	64.42g/l	7.761 L	7.4 ± 0.2	Nil	115ºC /30 min.			

## 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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