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B429 BISMUTH SULPHITE AGAR MODIFIED									
Formula									
Ingredients : g	ms/lit								
Peptic digest of animal tissue 5	.00								
Meat Extract B# 5	5.00								
	5.00								
	1.00								
).30								
	3.00								
	.016								
5	2.70								
#- Equivalent to Beef extract									
	5 <u>+</u> 0.2								
Directions :									
Suspend 40 grams in 1000ml distilled w									
IN AUTOCLAVE or by fractional sterilization since overheating may destroy the selectivity of the medium.									
	The sensitivity of the medium depends largely upon uniform dispersion of precipitated. Bismuth sulphite in the final medium which should be dispersed before pouring into the sterile petri plates.								
	ersea i	perore pourir	ng into the sterile petri plat	es.					
Principle :									
In Bismuth Sulfite Agar, Meat Extract B and Peptic digest of animal tissue provide nitrogen, vitamins and									
minerals. Dextrose is an energy source. Disodium phosphate is a buffering agent. Bismuth sulfite indicator and brilliant green are complementary in inhibiting gram-positive bacteria and members of the									
coliform group, while allowing Salmonella to grow luxuriantly. Ferrous sulfate is for H_2S production. When H_2S is present, the iron in the formula is precipitated, giving positive cultures the characteristic									
brown to black colour with metallic sheet									
QC Tests – (I)Dehydrated Medium	n. Aya	i is a soliuliy	ing agent.						
Colour :		Light vollow to groonich vollow							
				Light yellow to greenish yellow					
(II)Rehydrated medium	Appearance : Homogeneous Free Flowing powder								
pH (post autoclaving/heating) :				.6 + 0.2					
Colour (post autoclaving/heating) :		Greenish yel	llow						
Clarity (post autoclaving/heating) :				to					
(III)Q.C. Test Microbiological	Opalescent gel with flocculent precipitate.								
Cultural characteristics observed after 40 –48 hrs at 35-37°C.									
MICROORGANISM (ATCC)		<u>48 ms at 55</u>)WTH	COLOUR OF COLONY						
Salmonella enteritidis (13076)			Black with metallic sheen						
Salmonella typhi (19430)			Black with metallic sheen						
Salmonella Paratyphi B (8759)		d-luxuriant	Black with metallic sheen						
Enterobacter aerogenes (13048)		e - Poor	Brown to green*						
Escherichia coli (25922)		e - Poor e - Poor	Brown to green*						
Shigella flexneri (12022)		e - Poor	Brown						
Enterococcus faecalis (29212)		e - Poor bited							
Salmonella Typhimurium (14028)		d-luxuriant	Black with metallic sheen						
Key: * depends on inoculum density									
Rey: • depends on moculum density	′ .								
Refer disclaimer Overleaf									

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Precautions :	1. For Laboratory Use.								
	2. Follow proper, established laboratory procedures in handling and disposing of								
	infectious materials.								
	3. HARMFUL. May cause sensitization by inhalation. Irritating to eyes, respiratory								
	system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear								
	suitable protective clothing. Keep container tightly closed.								
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be								
	encountered that fail to grow or grow poorly on this medium.								
	2. It is important to streak for well isolated colonies. In heavy growth areas, S. typhi								
	appears light green and may be misinterpreted as negative growth for S. typhi.								
	3. S. typhi and S. arizonae are the only enteric organisms to exhibit typical brown zones								
	on the medium. Brown zones are not produced by other members of the								
	Enterobacteriaceae. However, S. arizonae is usually inhibited.								
	4. Colonies on Bismuth Sulfite Agar may be contaminated with other viable organisms;								
	therefore, isolated colonies should be subcultured to a less selective medium (e.g. Mac								
	Conkey Agar).								
	5. Typical S. typhi colonies usually develop within 24 hours ; however, all plates should								
	be incubated for a total of 48 hours to allow growth of all typhoid strains.								
	6. DO NOT AUTOCLAVE. Heating this medium for a period longer than necessary to just								
	dissolve the ingredients destroys its selectively.								
Use :	For selective isolation of Salmonella from faeces, urine, sewage and other materials.								
Storage :	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C. but not for mo								
	than two days as after which dye oxidizes to give green medium that could be inhibitory								
	to some Salmonellae. Current references suggest that the prepared medium should be								
De ekine i	aged for one day before use.								
Packing :	500 gm. bottle	Quantila		Constants	Charilling tion				
Product profile:	Reconstitution		pH (25°C)	Supplement	Sterilization				
D420	40.00~//	Preparation (500g)	76102	NITI					
B429	40.00g/l	12.5L	7.6 <u>+</u> 0.2	NIL	DO NOT STERILIZE IN AUTOCLAVE				
	<u> </u>				IN AUTOCLAVE				

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

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