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B232 LYSINE IRON								
Formula	-							
Ingredients :	gms/lit.							
Peptone	5.00							
Yeast extract	3.00							
Dextrose (Glucose)	1.00							
L-Lysine	10.00							
Ferric ammonium citrate	0.50							
Sodium thiosulphate	0.04							
Bromo cresol purple	0.02							
Agar	15.00							
Final pH (at 25°C) : 6.7 <u>+</u> 0.2								
Directions :								
	ml distilled wate	r Heat	to boilin	a to di	ssolve the medium completely			
Suspend 34.56 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense into tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubes								
in slanted position to form slants		. 10 100	pressure	(121 0				
Principle :	With deep battor							
	e which provides	carbon	and nitroc		rces required for good growth of			
					s required for growth, as well as			
					. L-Lysine Hydrochloride is the			
					e enzymes. Ferric Ammonium			
					ion. Bromo Cresol Purple, a pH			
indicator, is yellow at or below pl								
QC Tests – (I)Dehydrated Med				rigui i				
Colour :		to yellov	N					
Appearance :			• Free Flowi		wder			
(II)Rehydrated medium	Tiomog	eneous	TEETIOW	ng por	Muel			
pH (post autoclaving/heating)): 6.7 ± 0	2						
		.2						
	Colour (post autoclaving/heating) : Purple Clarity (post autoclaving/heating) : Clear to slightly opalescent							
Clarity (post autoclaving/heat		siightiy	opalesce	nu				
(III) Q.C. Test Microbiologica			25 2700					
Cultural characteristics observ								
MICROORGANISM (ATCC)	GROWTH	BUTT	SLANT	H₂S	Key :			
Citrobacter freundii (8090)	Luxuriant	A	K	+	+ = blacking of medium			
Escherichia coli (25922)	Luxuriant	K	K	-	- = no blacking of medium			
Proteus mirabilis (25933)	Luxuriant	A	R	+	R = deep red. Lysine			
Salmonella typhimurium (14		K	K	+	deamination			
Shigella flexneri (12022)	Luxuriant	Α	K	-	A = acidic, yellow colour			
Salmonella Arizonae (13314)	Luxuriant	К	K	+	K = alkaline, purple, no colour			
Salmonella Enteritidis (13076) Luxuriant	K	К	+	change			
Precautions : 1. For Labora	tory Use.							
2. Follow pr	oper, established	labora	tory proc	edures	in handling and disposing of			
infectious mate								
Limitations · 1 Since the put	itional requiremen	nts of or	nanisme	varv s	me strains may be encountered			
	: 1. Since the nutritional requirements of organisms vary, some strains may be encountered							
	that fail to grow or grow poorly on this medium. 2. Salmonella paratyphi A, unlike other Salmonella, does not produce lysine decarboxylase							
and so produces an alkaline slant and an acid butt.								
3. H_2S – producing Proteus species do not blacken the medium. It is, therefore, suggested								
that Lysine Iron Agar be used in conjunction with Triple Sugar Agar or other media to confirm differentiation.								
4. The reaction of Morganella morganii may be variable after 24 hours incubation and may								
		yanın ma	iy be vari		Lei 24 nours incubation and may			
require longer ind		rappier			monolla Arizonae based on their			
					monella Arizonae based on their			
					drogen sulphide (H2S).			
Storage : Dehydrated medi	um- below 30°C P	repared	mealum-	· Derme				

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Packing :	500 gm. bottle							
Product	Reconstitution	Quantity on	pH (25°C)	Supplement	Sterilization			
profile:		Preparation (500g)						
B232	34.56 g/l	14.46 lit	6.7 ± 0.2	NIL	121ºC/15 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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