

TECHNICAL SHEET

B881	LYSINE ARGININE IRON AGAR					
Formula						
Ingredients :		gms/lit.				
Peptic digest of animal tissue		5.00				
Yeast extract		3.00				
L-arginine		10.00				
L-Lysine		10.00				
Glucose		1.00				
Ferric ammonium citrate		0.50				
Sodium thiosulphate		0.04				
Bromo cresol purple		0.02				
Agar		15.00				
Final pH (at 25°C) : 6.8 ± 0.2						
Directions :						
Suspend 44.56 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in 5 ml amount into screw-capped test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubed medium to give slants and butts.						
Principle :						
Peptic digest of animal tissue and yeast extract provide the necessary nitrogenous nutrients and vitamin B complex to the organisms. Ferric ammonium citrate and sodium thiosulphate are the indicators for H ₂ S production. This medium contains two amino acids L-Arginine and L-Lysine. The organisms which do not decarboxylate L-Lysine but ferment glucose, gives an alkaline slant and an acid butt (yellow colour, as the bromo cresol purple is the pH indicator).						
QC Tests – (I)Dehydrated Medium						
Colour :		Light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II)Rehydrated medium						
pH (post autoclaving/heating) :		6.8 ± 0.2				
Colour (post autoclaving/heating) :		Purple				
Clarity (post autoclaving/heating) :		Clear to slightly opalescent				
(III)Q.C. Test Microbiological						
Cultural characteristics observed after an incubation at 25-30°C for 24- 48 hours						
MICROORGANISM (ATCC)		GROWTH	SLANT	BUTT	GAS	H ₂ S
Yersinia enterocolitica (27729)		Luxuriant	AK	A	-	-
Klebsiella pneumoniae (13883)		Luxuriant	AK	A	+	-
Key : AK = alkaline reaction, purple colour						
A = acidic reaction, yellow colour						
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.				
Use :		For the isolation and presumptive identification of Yersinia species from milk and milk products.				
Storage :		Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B881		44.56 g/l	11.22 lit	6.8 ± 0.2	Nil	121°C/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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