



90769

## Lysine Arginine Iron Agar (LAI Agar)

Part D

### Specifications

Appearance (Form)	Free flowing, homogeneous powder
Solubility	44.56 gm/liter
Solubility before autoclaving (Clarity)	Clear to slightly opalescent
pH (25°C)	6.8 ± 0.2
Prepared Medium Appearance after autoclaving (Clarity)	Clear to very slightly opalescent
Prepared Medium Appearance after autoclaving (Colour)	Purple
Cultural Response	Inoculate and incubate at 25-30° C for 24 - 48 hours
Organism	Klebsiella pneumoniae ATCC 13883
Inoculum (cfu) 10-100	Growth : Good Slant : Alkaline,purple color Butt : Acid,yellowing of medium H2S : (- ve) No blackening of medium Gas : (+ ve)
Organism	Yersinia enterocolitica ATCC 27729
Inoculum (cfu) 10-100	Growth : Good Slant : Alkaline,purple color Butt : Acid,yellowing of medium H2S : (- ve) No blackening of medium Gas : (- ve)

### Other Information

#### Applications

For the cultivation and differentiation of bacteria based on their ability to decarboxylate lysine, arginine and produce H<sub>2</sub>S. Recommended by APHA for isolation and identification of Yersinia from milk and milk products.

#### Composition

Ingredients	gms/lt.
L-lysine	10.00
Peptic digest of animal tissue	5.00
Yeast extract	3.00
L-Arginine	10.00
Dextrose	1.00
Ferric ammonium citrate	0.50
Sodium thiosulphate	0.04
Bromocresol Purple	0.02
Agar	15.00

#### Directions

1. Add 44.56 gm powder to distilled/purified water.
2. Bring volume to 1.0 litre and mix thoroughly.
3. Gently heat and bring to boiling.
4. Autoclave at 15 psi pressure at 121°C for 15 minutes.
5. Dispense as desired, preferably in slants with deep butts.

## General Information

Storage	8 to 25°C (Cool & Dry Area)
Shelf Life	36 Months
IMDG Identification	Not Regulated for Transport (Non-Haz)
HSN Code	
100 Gms	38210000 (GST 18%)
500 Gms	38210000 (GST 18%)
Type of Packing	
500 Gms	Plastic Bottle

## Available Packages

100 Gms
500 Gms

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### Disclaimer

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