



71125

## Lysine Iron Agar

Part D

### Specifications

Appearance (Colour)	Biege with greyish tinge				
Appearance (Form)	Free flowing, homogeneous powder				
Solubility	34.56 gm/liter				
Solubility before autoclaving (Clarity)	Clear to slightly opalescent				
Gel strength	Firm, comparable with 1.5% agar gel				
pH (25°C)	6.7 ± 0.2				
Prepared Medium Appearance after autoclaving (Clarity)	Clear to slightly opalescent				
Prepared Medium Appearance after autoclaving (Colour)	Purple				
Cultural Response	Inoculate and incubate at 37°C for 18 - 24 hours				
Organism	Escherichia coli ATCC 25922				
Inoculum (cfu) 10-100	Growth	Slant	Butt	H2S	
	Good	K	K		-
Organism	Salmonella typhimurium ATCC 14028				
Inoculum (cfu) 10-100	Growth	Slant	Butt	H2S	
	Good	K	K		+
Organism	Proteus mirabilis ATCC 25933				
Inoculum (cfu) 10-100	Growth	Slant	Butt	H2S	
	Good	A	R		+
Organism	Shigella flexneri ATCC 12022				
Inoculum (cfu) 10-100	Growth	Slant	Butt	H2S	
	Good	A	K		-
Key	A = acidic, yellow; K = alkaline, purple, no colour change; R = deep red, lysine deamination; H2S = (+) blackening of medium; H2S = (-) no blackening of medium.				

### Other Information

#### Applications

For the differentiation of enteric organisms, especially Salmonella, based upon lysine decarboxylation/ deamination and H2S production.

#### Composition

Ingredients	gm/lt.
L-Lysine	10.00
Pancreatic digest of gelatin	5.00
Yeast extract	3.00

Dextrose	1.00
Ferric ammonium citrate	0.50
Sodium thiosulphate	0.04
Bromocresol Purple	0.02
Agar	15.00

#### Directions

1. Add 34.56 gm powder to distilled/purified water.
2. Bring volume to 1.0 litre and mix thoroughly.
3. Gently heat and bring to boiling.
4. Dispense into test tubes.
5. Autoclave at 15 psi pressure at 121°C for 15 minutes.

### 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%)

### Available Packages

100 Gms

500 Gms

#### Disclaimer

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608-B, Satellite Gazebo, Andheri Ghatkopar Link Road, Chakala, Andheri (E), Mumbai - 400 099, Maharashtra, India. Telephone: +91-22-4268 5800, Email: info@srchem.com, website www.srchem.com