



12081

## Triple Sugar Iron Agar (I)

Part D

### Specifications

Appearance (Colour)	Light pink
Appearance (Form)	Free flowing, homogeneous powder
Solubility	64.62 gm/liter
Solubility before autoclaving (Clarity)	Clear to very slightly opalescent
pH (25°C)	7.4 ± 0.2
Prepared Medium Appearance after autoclaving (Clarity)	Clear to very slightly opalescent
Prepared Medium Appearance after autoclaving (Colour)	Pinkish red
Cultural Response	Inoculate and incubate at 37°C for 18 - 24 hours
Organism	Escherichia coli ATCC 25922
Inoculum (cfu) 10-100	Growth: Good, Slant: A, Butt: A, Gas: +, H <sub>2</sub> S: -
Organism	Enterobacter aerogenes ATCC 13048
Inoculum (cfu) 10-100	Growth: Good, Slant: A, Butt: A, Gas: +, H <sub>2</sub> S: -
Organism	Salmonella typhimurium ATCC 14028
Inoculum (cfu) 10-100	Growth: Good, Slant: K, Butt: A, Gas: +, H <sub>2</sub> S: +
Organism	Klebsiella pneumoniae ATCC 13883
Inoculum (cfu) 10-100	Growth: Good, Slant: A, Butt: A, Gas: +, H <sub>2</sub> S: -
Organism	Pseudomonas aeruginosa ATCC 27853
Inoculum (cfu) 10-100	Growth: Good, Slant: K, Butt: K, Gas: -, H <sub>2</sub> S: -
Organism	Proteus vulgaris ATCC 13315
Inoculum (cfu) 10-100	Growth: Good, Slant: K, Butt: A, Gas: -, H <sub>2</sub> S: +
Organism	Shigella flexneri ATCC 12022
Inoculum (cfu) 10-100	Growth: Good, Slant: K, Butt: A, Gas: -, H <sub>2</sub> S: -
Key	A = acidic, yellow; K = alkaline, no change; Gas = (+) splitting and cracking of the medium, Gas = (-) no splits, cracks or bubbles, H <sub>2</sub> S = (+) black precipitate; H <sub>2</sub> S = (-) no black precipitate

### Other Information

#### Applications

Used for the differentiation of members of Enterobacteriaceae on the basis of fermenting of glucose, lactose, sucrose and H<sub>2</sub>S production.

#### Composition

Ingredients	gm/lt.
Peptone	20.00

Beef extract (ex. buffalo)	3.00
Yeast extract	3.00
Sodium chloride	5.00
Glucose	1.00
Lactose	10.00
Sucrose	10.00
Ferric citrate	0.30
Sodium thiosulphate	0.30
Phenol Red	0.025
Agar	12.00

**Directions**

1. Add 64.625 gm powder to 1.0 litre distilled/purified water and mix thoroughly.
2. Gently heat and bring to boiling.
3. Dispense into test tubes.
4. Autoclave at 15 psi pressure at 121°C for 15 minutes.
5. Prepare slants and 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

**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