33943

Kligler Iron Agar

Part D

Specifications

Appearance (Colour)	Light pink
Appearance (Form)	Free flowing, homogeneous powder
Solubility	57.52 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)	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 : Acidic, yellowing of medium Butt : Acidic,yellowing of medium Gas : +ve H2S : -ve
Organism	Enterobacter aerogenes ATCC 13048
Inoculum (cfu) 10-100	Growth : Good Slant : Acidic,yellowing of medium Butt : Acidic,yellowing of medium Gas : +ve H2S : -ve
Organism	Salmonella typhimurium ATCC 14028
Inoculum (cfu) 10-100	Growth : Good Slant : Alkaline, red colouring of medium Butt : Acidic,yellowing of medium Gas : +ve H2S : +ve
Organism	Klebsiella pneumoniae ATCC 13883
Inoculum (cfu) 10-100	Growth : Good Slant : Acidic,yellowing of medium Butt : Alkaline, red colouring of medium Gas : +ve H2S : -ve
Organism	Pseudomonas aeruginosa ATCC 27853
Inoculum (cfu) 10-100	Growth : Good Slant : Alkaline, red colouring of medium Butt : Alkaline, red colouring of medium Gas : -ve H2S : -ve
Organism	Proteus vulgaris ATCC 13315
Inoculum (cfu) 10-100	Growth : Good Slant : Alkaline, red colouring of medium Butt : A Gas : -ve H2S : +ve
Organism	Shigella flexneri ATCC 12022

Inoculum (cfu) 10-100	Growth : Good Slant : Alkaline, red colouring of medium Butt : Acidic,yellowing of medium Gas : -ve H2S : -ve
Key	A = acidic, yellow; K = alkaline, no change; Gas = (+) splitting and cracking of the medium, Gas = (-) no splitting and cracking of the medium, H2S = (+) black precipitate; H2S = (-) no black precipitate

Other Information

Applications

For the differentiation and identification of gram-negative bacilli based upon the fermentation of dextrose and lactose and production of H2S.

Composition	
Ingredients	gm/lt.
Peptone	15.00
Beef extract (ex.buffalo)	3.00
Yeast extract	3.00
Proteose peptone	5.00
Sodium chloride	5.00
Glucose	1.00
Ferrous sulphate	0.20
Sodium thiosulphate	0.30
Phenol Red	0.024
Agar	15.00
Lactose	10.0

Directions

1. Add 57.52 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%)
Type of Packing	
100 Gms	Plastic Bottle

Available Packages

100 Gms
500 Gms

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