



21740

Motility Sulphide Medium

Part D

Specifications

Appearance (Colour)	Light yellow
Appearance (Form)	Free flowing, homogeneous powder
Solubility	104.40 gm/lit
Solubility before autoclaving (Clarity)	slightly opalescent
Solubility before autoclaving (Colour)	Yellow
pH (25°C)	7.3 ± 0.2
Prepared Medium Appearance after autoclaving (Clarity)	Clear to very slightly opalescent
Prepared Medium Appearance after autoclaving (Colour)	Yellow
Gel strength	semi-solid, comparable with 0.4% agar and 8.0% Gelatin
Cultural Response	Inoculate and incubate at 35°C for 18-24 hours with the following:
Organism	Enterobacter aerogenes ATCC 13048
Inoculum (cfu) 10-100	Growth: Good Motility : (+)ve H2S : (-) ve Urease : (-)ve
Organism	Escherichia coli ATCC 25922
Inoculum (cfu) 10-100	Growth: Good Motility : (+)ve H2S : (-) ve Urease : (-)ve
Organism	Salmonella typhimurium ATCC 14028
Inoculum (cfu) 10-100	Growth: Good Motility : (+)ve H2S : (+) ve Urease : (-)ve Urease: -
Organism	Staphylococcus aureus ATCC 25923
Inoculum (cfu) 10-100	Growth: Good Motility : (-)ve H2S : (-) ve Urease : (-)ve
Organism	Proteus mirabilis* ATCC 25933
Inoculum (cfu) 10-100	Growth: Good Motility : (±)ve H2S : (+)ve Urease : (+)ve
Organism	Shigella sonnei ATCC 25931
Inoculum (cfu) 10-100	Growth : Good Motility : (-)ve H2S :(-)ve Urease : (-)ve

Key

Motility : (+)ve, positive reaction, indicated by growth away from stabline
(-)ve, negative reaction, indicated by growth along stab line
* .is temperature dependent, more pronounced at 20°C and absent at 35°C.
H2S : (+)ve, positive reaction, blackening of medium
H2S : (-)ve, negative reaction, no blackening of medium
Urease : (+)ve, positive reaction, dark pink-red colour of medium
Urease : (-)ve, negative reaction, no change in colour of medium
(+)ve: positive reaction, motile organism / blackening of medium/
reddish purple colouration

Other Information

Applications

For the determination of bacterial motility and the ability of bacteria to produce H2S from L- Cystine.

Composition

Ingredients	gms/lt.
Gelatin	80.00
Proteose peptone	10.0
Sodium chloride	5.00
Agar	4.00
Beef extract (ex. Buffalo)	3.00
Sodium citrate	2.00
L-Cystine	0.20
Ferric ammonium citrate	0.20

Directions

1. Add 104.40 gm powder to 1.0 liter distilled/purified water and mix thoroughly.
2. Gently heat and bring to boiling.
3. Dispense in tubes in 4ml amounts.
4. Autoclave at 10 psi pressure at 115°C for 15 minutes.
5. Allow the tubes to solidify in upright position.

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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