

TITAN MEDIA

CHRISTENSEN CITRATE AGAR

TM 065

For differentiation of enteric pathogens and coliforms on the basis of citrate utilization

Composition

Ingredients	Gms/Ltr.
Agar	15.00
Sodium chloride	5.00
Sodium citrate	3.00
Monopotassium phosphate	1.00
Yeast extract	0.50
Dextrose	0.20
L- cysteine hydrochloride	0.10
Phenol red	0.012

* Dehydrated powder store, hygroscopic in nature, place in a dry, in tightly - sealed containers below 25°C and protect from direct Sunlight.

Instructions for Use

Dissolve 24.80gms in 1000ml of purified water or distilled water. Gently heat to boiling with gentle swirling and dissolve the medium completely. Dispense into test tubes. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes. Cool to 45-50°C and place them into slanted position.

Appearance: Orange or red colour, very slightly opalescent gel

pH (at 25°C): 6.9 ± 0.2

Principle

CHRISTENSEN CITRATE AGAR is used for the differentiation of enteric pathogens and coliforms on the basis of citrate utilization.

Interpretation

Cultural characteristics observed after inoculating (10^3 CFU/ml), on incubation at 35°C for 24 - 48 hours.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Escherichia coli</i>	25922	10^3	Inhibited
<i>Sphaerotilus natans</i>	13338	10^3	Luxuriant

References

1. Christensen W.B., Research Bull., Weld County Health Dept., Greenley Co., 1:3. (1949).
2. Edwards P.R. and Ewing W. H., 1955 and 1962, Identification of Enterobacteriaceae Minneapolis, Burgess Publishing Co., pg. 179 and 242.