



Glucose Citrate Broth Base

M435

Glucose Citrate broth base is used for cultivation of fastidious microorganisms.

Composition**

Ingredients	Gms / Litre
Beef extract	5.000
Peptic digest of animal tissue	10.000
Sodium chloride	5.000
Glucose	1.000
Sodium citrate	2.000
Final pH (at 25°C)	7.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 23 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Dispense as desired.

Principle And Interpretation

Glucose Citrate Broth Base is used for cultivation of fastidious organisms. The medium is modification of the medium developed by Koser (1).

Peptic digest of animal tissue and beef extract provides nitrogenous compounds and other essential growth nutrients. Glucose provides the energy sources and sodium citrate as the carbon source.

Quality Control

Appearance

Yellow coloured homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate.

Reaction

Reaction of 2.3% w/v aqueous solution at 25°C. pH : 7.6±0.2

pH

7.40-7.80

Cultural Response

M435: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

1.Koser., 1923, J. Bact., 8:493.

**Disclaimer :**

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