

## Glucose Citrate Broth

### Intended Use

Glucose Citrate broth is used for cultivation of fastidious microorganisms.

### Summary

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

### Principle

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

### Formula\*

Ingredients	g/L
Cara Beef Extract#	5.0
Peptic Digest of Animal Tissue	10.0
Sodium Chloride	5.0
Glucose	1.0
Sodium Citrate	2.0
Final pH (at 25°C)	7.6 ± 0.2

\*Adjusted to suit performance parameters.

# Equivalent to Beef Extract

### Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

### Specimen Collection and Handling

Ensure that all samples are properly labelled.

Follow appropriate techniques for handling samples as per established guidelines.

Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure.

The samples must be stored and tested within the permissible time duration.

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Directions

1. Suspend 23.00 g of the powder in 1000 mL purified / distilled water.
2. Heat if necessary, to dissolve the powder completely.
3. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.
4. Dispense as desired.

### Quality Control

**Dehydrated appearance:** Yellow coloured homogeneous free flowing powder.

**Prepared Appearance:** Light yellow coloured clear solution without any precipitate.

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

Organism (ATCC)	Growth
<i>Klebsiella aerogenes</i> (13048)	Good
<i>Escherichia coli</i> (25922)	Good

### Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

## Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

## Reference

1. Koser., 1923, J. Bact., 8:493.
2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

## Product Presentation:

Cat No.	Product description	Pack Size
201070080100	Dehydrated Culture Media	100 g

 Temperature Limit	 Manufacturer	 LOT	Batch Code	 Date of Manufacture	 This way up	 Received on
 Catalogue Number	 Consult Instructions for use	 Use-by Date	 Hygroscopic keep container tightly closed	 Opened on		

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## Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.