

BacterLab Division



Issue date: 02/01/2025

Version: 01.2025

CELL CULTURE MEDIUM

LabCell™ GMEM

GMEM promotes the development of Baby Hamster Kidney (BHK-21) cells and investigates genetic factors affecting the functionality of the cells.

Code: 13001

Cell Culture Medium
LabCell™



1. INTENDED USE

LabCell™ GMEM is a medium that promotes the growth of Baby Hamster Kidney (BHK-21) cells and supports research on genetic factors influencing cell functionality. GMEM is free of proteins, lipids, and growth factors, requiring the addition of 10% tryptose phosphate broth. If the buffer is sodium bicarbonate (2.75 g/L), 5–10% CO₂ needs to be supplied to the environment to maintain the physiological pH of the cells..

2. TYPICAL COMPOSITION

For 1 liter of medium (reference)

Component	Concentration (mg/L)
L-Cystine dihydrochloride	0.03129
L-Glutamine	0.292
L-Histidine hydrochloride monohydrate	0.021
L-Isoleucine	0.0524
L-Leucine	0.0524
L-Lysine hydrochloride	0.0731
L-Methionine	0.015
L-Phenylalanine	0.033
L-Tyrosine	0.0362
L-Threonine	0.0476
L-Tryptophan	0.008
L-Valine	0.0468
Calcium-D(+) pantothenate	0.002
Choline chloride	0.002
Pyridoxal hydrochloride	0.002
Folic acid	0.002
Myo-Inositol	0.0036
Nicotinamide	0.002
Riboflavin	0.0002
Thiamine hydrochloride	0.002
Phenol red	0.015
Glucose anhydrous	4.5
Calcium chloride anhydrous	0.2
Iron(III) nitrate nonahydrate	0.0001
Magnesium sulfate anhydrous	0.09767
Potassium chloride	0.4
Sodium chloride	6.4
Sodium dihydrogen phosphate monohydrate	0.1078

pH of the ready-to-use medium at 25°C: 7,5 ± 0,3

3. PREPARATION

The environmental plates are ready-to-use, no preparation required.

4. INSTRUCTIONS FOR USE

Use depends on the user's purpose

5. QUALITY CONTROL

BacterLab performs quality control on each product batch.

Parameter	Standard	Result
Sterility	No bacterial growth after incubation at 35 – 37°C for 18 – 24 hours	Pass

6. STORAGE AND TRANSPORT CONDITIONS

- Storage: 2 – 8°C.
- Transportation: 2 – 8°C

7. PACKAGING

- Packaging: 500mL/ bottle or as per customer request.

8. EXPIRATION DATE

- Expiration date: 24 months from the production date