



Gelatin Peptone Agar

M1701

Gelatin Peptone Agar is recommended for the cultivation of non fastidious bacteria.

Composition**

Ingredients	Gms / Litre
Gelatin peptone	5.000
Agar	15.000
Final pH (at 25°C)	7.0±0.1

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 20.0 grams in 1000 ml distilled water. Heat to boiling with agitation to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

Principle And Interpretation

This is a simple medium containing Gelatin peptone (pancreatic digest of gelatin). Gelatin peptone provides complex carbon and nitrogen sources necessary for microbial growth. It has low cystine and tryptophan content. As it contains only gelatin as ingredient it makes media nonselective in nature. The neutral pH of medium allows growth of bacteria . Hence it can be used for plate count, particularly of ice cream and related products. This medium can be used is recommended particularly for growing nonfastidious organisms. Agar acts as a solidifying agent.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow coloured, clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 2.0% w/v aqueous solution at 25°C. pH : 7.0±0.1

pH

6.90-7.10

Cultural Response

M1701: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant	≥50%
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant	≥50%
<i>Lactobacillus bulgaricus</i> ATCC 11842	50-100	none-poor	≤10%

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.

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