



## Gelatin Peptone

RM020

Being rich in essential amino acids it can be successfully used to supplement Tissue Culture media. It can be used as a substrate for many organisms

### Principle And Interpretation

Gelatin Peptone is prepared by enzymic digestion of gelatin and as such it is characterized by low Cystine, Tryptophan and Carbohydrate content. It is used in antibiotic assay media yielding low but reliable and reproducible growth level and also in media used for various fermentation studies.

### Quality Control

#### Appearance

Off white to light yellow Homogenous Free flowing powder, having Characteristic odour but not putrescent.

#### Solubility

Freely soluble in distilled water, insoluble in alcohol and ether.

#### Clarity

1% w/v aqueous solution is clear without any haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Reaction

Reaction of 2% w/v aqueous solution at 25°C.

#### pH

6.20- 7.20

#### Microbial Load:

##### Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

##### Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

#### Test for Pathogens

1. E.coli-Negative in 10 gms of sample  
2. Salmonella species-Negative in 10 gms of sample  
3. Pseudomonas aeruginosa-Negative in 10 gms of sample  
4. Staphylococcus aureus- Negative in 10 gms of sample  
5. C.albicans- Negative in 10 gms of sample  
6. Clostridia- Negative in 10 gms of sample

#### Indole test

Tryptophan content: Absent

#### Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MacConkey Agar (M082) using Gelatine Peptone as an ingredient.

#### Cultural Response

Organism	Growth	Colour of Colony
<b>Cultural response</b> <i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink to red with bile precipitate
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Pale pink to red
<i>Enterococcus faecalis</i> ATCC 29212	Fair to good	Colourless to pink
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Colourless

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<i>Salmonella Paratyphi A</i> ATCC 9150	Luxuriant	Colourless
<i>Shigella flexneri</i> ATCC 12022	Fair to good	Colourless
<i>Salmonella Paratyphi B</i> ATCC 8759	Luxuriant	Colourless
<i>Salmonella Enteritidis</i> ATCC 13076	Luxuriant	Colourless
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Colourless
<i>Staphylococcus aureus</i> ATCC 25923	Fair-good	Pale pink -red

### Chemical Analysis

Total Nitrogen	$\geq 14\%$
Amino Nitrogen	$\geq 1.50\%$
Sodium chloride	$\leq 6.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 16\%$

### Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.

### Disclaimer :

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