Gelatin Peptone

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 (121ºC ) for 15 minutes.

**Reaction**
Reaction of 2% w/v aqueous solution at 25ºC.

**pH**
6.20- 7.20

**Microbial Load:**

**Total aerobic microbial count (cfu/gm)**
By plate method when incubated at 30-35ºC for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

**Total Yeast and mould count (cfu/gm)**
By plate method when incubated at 20-25ºC for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

**Test for Pathogens**


**Indole test**
Tryptophan content: Absent

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

<table>
<thead>
<tr>
<th>Organism</th>
<th>Growth</th>
<th>Colour of Colony</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Escherichia coli ATCC</em></td>
<td>Luxuriant</td>
<td>Pink to red with bile precipitate</td>
</tr>
<tr>
<td>25922</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Enterobacter aerogenes</em></td>
<td>Luxuriant</td>
<td>Pale pink to red</td>
</tr>
<tr>
<td>ATCC 13048</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Enterococcus faecalis</em></td>
<td></td>
<td>Colourless to pink</td>
</tr>
<tr>
<td>ATCC 29212</td>
<td>Luxuriant</td>
<td></td>
</tr>
<tr>
<td><em>Proteus vulgaris</em></td>
<td></td>
<td>Colourless</td>
</tr>
<tr>
<td>ATCC 13315</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please refer disclaimer Overleaf.
**Salmonella Paratyphi A**  
*ATCC 9150*  
Luxuriant  
Colourless

**Shigella flexneri ATCC 12022**  
Fair to good  
Colourless

**Salmonella Paratyphi B**  
*ATCC 8759*  
Luxuriant  
Colourless

**Salmonella Enteritidis ATCC 13076**  
Luxuriant  
Colourless

**Salmonella Typhi ATCC 6539**  
Luxuriant  
Colourless

**Staphylococcus aureus**  
*ATCC 25923*  
Fair-good  
Pale pink-red

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**Chemical Analysis**

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen</td>
<td>&gt;= 14%</td>
</tr>
<tr>
<td>Amino Nitrogen</td>
<td>&gt;= 1.50%</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>&lt;= 6.0%</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>&lt;= 5.0%</td>
</tr>
<tr>
<td>Residue on ignition</td>
<td>&lt;= 16%</td>
</tr>
</tbody>
</table>

**Storage and Shelf Life**

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

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**Disclaimer:**

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