

<b>BI707</b>	<b>Peptone bacteriological</b>
<b>Specifications</b>	
<b>Appearance</b>	: Pale yellow to light brown homogenous free flowing powder with characteristic meat like odour.
<b>Formula</b>	
Total Nitrogen	: $\geq 13.50\%$
$\alpha$ – Amino nitrogen	: $\geq 3.00\%$
Loss on drying	: $\leq 5.0\%$
Residue on ignition	: $\leq 15\%$
Sodium chloride	: $\leq 5.0\%$
<b>Clarity (2% solution)</b>	: <b>Clear</b>
<b>pH (2% solution)</b>	: 5.8 – 7.0
<b>Microbial Load:(CFU/g)</b>	
Total aerobic microbial count by plate method when incubated at 30-35 °c for 48 hours	
<b>Bacterial count</b>	: NMT 5000
Total Yeast and mold count by plate method when incubated at 20-25 °c for 120 hours	
<b>Yeast and mold count</b>	: NMT 250
<b>Test for specific organisms</b>	
E. coli	: Absent
Salmonella species	: Absent
Pseudomonas aeruginosa	: Absent
Staphylococcus aureus	: Absent
<b>Bacteriological testing</b>	
1. <u>Production of H<sub>2</sub>S</u>	:
Medium :1% peptone in water. After inoculation with test culture and incubation for 24 hours at 35-37°C.	
Salmonella Typhi ATCC 6539: The lead acetate test paper shows brownish blackening (Lead sulphide)	
2. <u>Production of Indole</u>	:
Medium: 0.1% peptone in water. After inoculation with test culture and incubation for 24 hours at 35-37°C.	
Escherichia coli ATCC25922: Appearance of distinct pink to red colour ring (Positive test).	
Enterobacter aerogenes ATCC 13048: No formation of pink to red coloured ring (Negative test).	

Refer disclaimer Overleaf

**TECHNICAL SHEET**

<b>Cultural response:</b>	
Cultural response observed after incubation at 35-37°C for 24 hours by using 2% peptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4	
<b>ORGANISM</b>	<b>GROWTH</b>
Escherichia coli ATCC 25922	Luxuriant
Pseudomonas aeruginosa ATCC 27853	Luxuriant
Enterobacter aerogenes ATCC 13048	Luxuriant
Salmonella Typhi ATCC 6539	Luxuriant
Staphylococcus aureus ATCC 25923	Luxuriant
Streptomyces albus ATCC 3004	Luxuriant
Streptococcus pyogenes ATCC 19615	Luxuriant w/ beta haemolysis (With addition of sterile 5% sheep blood to above medium, after an incubation at 35-37°C for 48 hours.
Neisseria gonorrhoeae ATCC 19424	Luxuriant w/ beta haemolysis (With addition of sterile 10% sheep blood to above medium heated to 80-90°C until blood has turned to chocolate brown and incubated in 10% CO2 atmosphere at 35-37°C for 48 hours).
<b>Applications:</b>	
For preparation of Nutrient media, Diagnostic media, General laboratory media and for commercial production of enzymes, vaccines, antibiotics, and other products.	
<b>Precaution</b>	
<ol style="list-style-type: none"> <li>1. For Laboratory Use</li> <li>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.</li> </ol>	
<b>Storage:</b>	Below 30°C in cool, dry place.
<b>Packing:</b>	500 g / 100 g

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARK LABORATORIES publications.

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