



Bio Peptone, Certified

CR021

It is recommended to be used in media for analytical microbiology and industrial fermentation.

Principle And Interpretation

Bio Peptone, Certified is manufactured by a controlled enzymatic hydrolysis of casein and animal tissue. It provides a broad spectrum of peptides and amino acids which supports better microbiological growth characteristics to a large variety of organisms.

Quality Control

Appearance

Light yellow to brownish yellow Homogenous Free flowing powder ,having Characteristic odour but not putrescent

Solubility

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

Clarity

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

Reaction

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

pH

6.00- 7.00

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: Passes

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Columbia Broth (M145) using Biopeptone as an ingredient.

Cultural Response

Organism	Growth
Cultural response <i>Clostridium perfringens</i> ATCC 12924	Luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
<i>Streptococcus mitis</i> ATCC 9895	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 12.0\%$
Amino Nitrogen	$\geq 2.50\%$
Sodium chloride	$\leq 8.0\%$
Loss on drying	$\leq 6.0\%$
Residue on ignition	$\leq 18\%$

Storage and Shelf Life

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

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