Bacteriological Peptone

Intended Use

It is used as culture media ingredient in variety of media as it contains high tryptophan content and can be used for commercial production of enzymes, vaccines, antibiotics, steroids and other products.

Principle and Interpretation

Bacteriological peptone is prepared by enzymatic digestion of selected fresh meat. It supports good growth of wide variety of microorganisms as highly nutritious and can be used for identification of bacteria by performing various biochemical tests. As peptones confer nutritional benefit, especially at low dilution rates, for the recombinant cell lines it have been recently used as medium additives for the production of a recombinant therapeutic protein in high density perfusion cultures of mammalian cells.

Storage

Store between 30°C in tightly closed container. Use before expiry date on label.

Typical Analysis

Colour	Light to brownish yellow
Colour in solution	Beige
pH (2% in water)	6.10- 7.10
Total Nitrogen	≥ 13.50%
Sodium Chloride	≤ 5.0%
Amino Nitrogen	≥ 3.00%
Residue on Ignition	≤ 15%
Loss on drying	≤ 5.0%

Quality Control

Organism	Growth
Escherichia coli ATCC 25922	Luxuriant
Pseudomonas aeruginosa ATCC 27853	Luxuriant
Enterobacter aerogenes ATCC 13048	Luxuriant
Staphlococcus aureus ATCC 25923	Luxuriant
Streptomyces albus ATCC 3004	Luxuriant
Streptococcus pyogenes ATCC 19615	Luxuriantw/ 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	Luxuriantw/ 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).
Salmonella Typhi ATCC 6539	Luxuriant