

Polypeptone



Polypeptone is a combination nutrient with equal parts of enzymatic digest of casein and enzymatic hydrolysis of animal tissue.

• PHYSICO-CHEMICAL CHARACTERISTICS

	Standard
Solubility in water at 5%	complete
pH of 5% concentration	6.8±0.2
Loss on drying	≤ 6.0%
Total nitrogen TN	10%
α-amino nitrogen AN	3.7%
Ash	not superior to 15%

• USE

Polypeptone is a good nutrient obtained by the enzymatic hydrolysis of animal tissue and enzymatic digest of casein. It is utilized for the growth and isolation of fastidious microorganisms that a single source of casein or meat peptones has been unsatisfactory.

• INTERPRETATION

Polypeptone obtained by enzymatic digest of casein and enzymatic hydrolysis of animal tissue. Enzymatic digest of casein includes the high content of amino acids and small polypeptides and enzymatic hydrolysis of animal tissue includes the larger polypeptides.

• TECHNIC

Polypeptone can be used as an ingredient of dehydrated culture media and need dissolution in distilled or deionized water and sterilization by autoclaving.

• QUALITY CONTROL FOR USE

Dehydrated powder

Appearance: free-flowing, homogeneous.

Color: beige.

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration are evident.

• REFERENCES

1. Lee, Lee, Kwon, Lee and Chang. 2000. Batch and continuous cultivation of *Anaerobiospirillum succiniciproducens* for the production of succinic acid from whey. *Appl. Microbiol. Biotechnol.* 54:23-27.
2. Yang, Takeyama, Tanaka and Matsunaga. 2001. Effects of growth medium composition, iron sources and atmospheric oxygen concentrations on production of luciferase-bacterial magnetic particle complex by a recombinant *Magnetospirillum magneticum* AMB-1. *Enzyme Microbiol. Technol.* 29:

• PACKAGE

Cat. No : MB-P1665 PolyPeptone	500 G
Cat. No : MB-P16655 PolyPeptone	5 KG