

BBL™ Polypeptone™ Peptone

Product Description

BBL™ Polypeptone™ Peptone is a mixture of peptones made up of equal parts of pancreatic digest of casein and peptic digest of animal tissue. Polypeptone Peptone includes the high content of amino acids and small polypeptides characteristic of pancreatic digest of casein and the larger polypeptides characteristic of peptic digest of animal tissue.

Potential Applications

Researchers have found Polypeptone Peptone to meet nutritional requirements of various bacteria, fungi and mammalian cells, where a single source of casein or meat peptones has been unsatisfactory. Polypeptone Peptone has been utilized in culture media for the production of trypsin inhibitor by *Cephalosporium* sp.;¹ the production of bacterial cellulose by *Acetobacter* sp. A9;² production of succinic acid from whey by *Anaerobiospirillum succiniciproducens*;³ mass production of luciferase-bacterial magnetic particles by recombinant *Magnetospirillum magneticum* AMB-1;⁴ and the production of a novel tumor-killing factor by human macrophage-monocyte hybridomas.⁵

Physical Characteristics

BBL™ Polypeptone™ Peptone is a yellow to tan, fine, free-flowing, homogeneous powder.

References

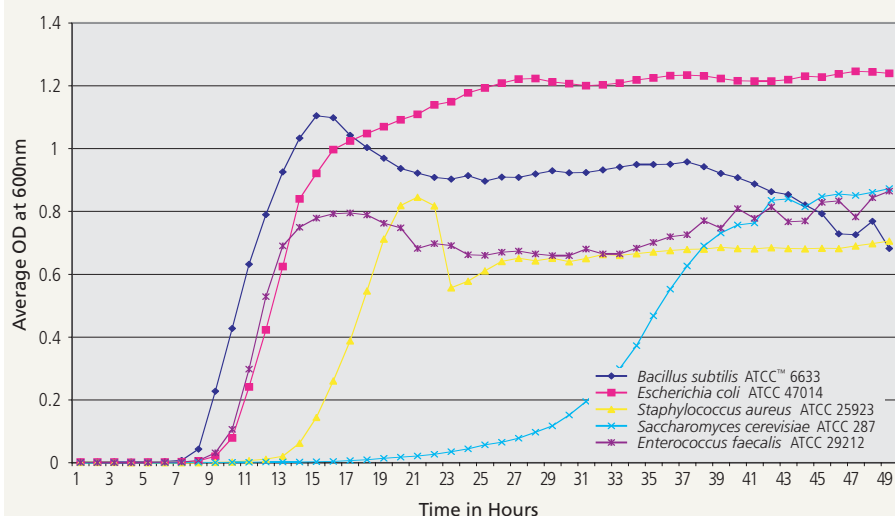
1. Tsuchiya and Kimura. 1978. Production of trypsin inhibitor by a *Cephalosporium* sp. Appl. Environ. Microbiol. 35:631-635.
2. Son, Heo, Kim and Lee. 2001. Optimization of fermentation conditions for the production of bacterial cellulose by a newly isolated *Acetobacter* sp. A9 in shaking cultures. Biotechnol. Appl. Biochem. 33(Pt 1):1-5.
3. 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.
4. 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. 29:13-19.
5. Taniyama, Yoshida and Furuta. 1988. Demonstration of a novel tumor-killing factor secreted from human macrophage-monocyt hybridomas. J. Immunol. 141:4061-4066.

Availability

Product Description	Cat. No.	Qty.
Polypeptone™ Peptone . .	211910 . .	454 g
Polypeptone™ Peptone . .	297108 . .	10 kg

Growth Curve

1% BBL™ Polypeptone™ Peptone in 1.13% M9 Minimal Salts + 0.4% Glucose, BioScreen C



Molecular Weight

BBL™ Polypeptone™ Peptone

