

Bacto™ Neopeptone

Product Description

Bacto™ Neopeptone is an enzymatic digest of protein. Neopeptone contains a wide variety of peptide sizes in combination with vitamins, nucleotides and minerals.

Potential Applications

Neopeptone is recommended for use in media for detection of fungi.¹ Apodaca and McKerrow² used Neopeptone for the cultivation of *Trichophyton rubrum* for study of its proteolytic activity. Neopeptone has been cited as a component of culture media used for cultivation of human pathogens, notably, *Bordetella pertussis* and group A streptococci.

Neopeptone has also been reported to provide nutrients for support of spirochetes and protozoa. Wyss et al.³ used Neopeptone as a component of a medium for cultivation of *Treponema maltophilum* sp. nov., a fastidious oral anaerobe. Ifediba and Vanderberg⁴ reported that Neopeptone, in addition to calf serum, was used as an inexpensive replacement for human serum in cultivation of *Plasmodium falciparum*, the causative agent of human malaria. Cushion and Ebbets⁵ utilized Neopeptone in their investigations of various media for cultivating *Pneumocystis carinii* without feeder cells; optimal replication of *P. carinii* separated from host fungi cells was observed in media with Neopeptone and N-acetylglucosamine at low pH.

Physical Characteristics

Bacto™ Neopeptone appears as tan, free-flowing, granules.

References

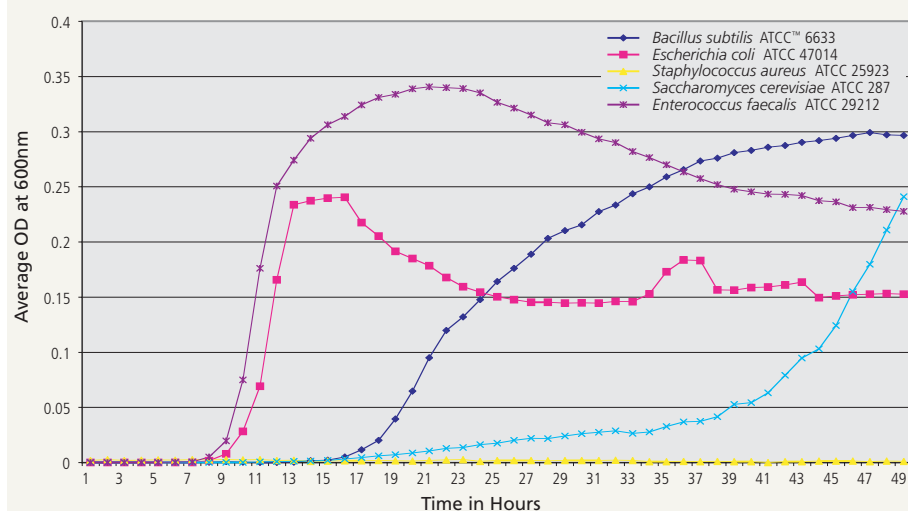
1. Clesceri, Greenberg and Eaton (ed.). 1998. Standard methods for the examination of water and wastewater, 20th ed., 9-131-137. American Public Health Association, Washington, D.C.
2. Apodaca and McKerrow. 1990. Expression of proteolytic activity by cultures of *Trichophyton rubrum*. J. Med. Vet. Mycol. 28:159-171.
3. Wyss, Choi, Schupbach, Guggenheim and Gobel. 1996. *Treponema maltophilum* sp. nov., a small oral spirochete isolated from human periodontal lesions. Int. J. Syst. Bacteriol. 46:745-752.
4. Ifediba and Vanderberg. 1980. Peptones and calf serum as a replacement for human serum in the cultivation of *Plasmodium falciparum*. J. Parasitol. 66:236-239.
5. Cushion and Ebbets. 1990. Growth and metabolism of *Pneumocystis carinii* in axenic culture. J. Clin. Microbiol. 28:1385-1394

Availability

Product Description	Cat. No.	Qty.
Bacto™ Neopeptone . . .	211681 . . .	500 g
Bacto™ Neopeptone . . .	211680 . . .	10 kg

Growth Curve

1% Bacto™ Neopeptone in 1.13% M9 Minimal Salts + 0.4% Glucose, BioScreen C



Molecular Weight

Bacto™ Neopeptone

