

P13 Novel Antibiotic Peptides, Tylopeptins A and B, from *Tylopilus neofelleus*: Isolation, Identification, and Biological Activity

Sang-Jun Lee, Bong-Sik Yun, Duk-Hyun Cho¹, Ick-Dong Yoo

Korea Research Institute of Bioscience and Biotechnology (KRIBB)

¹Department of Biology, Chonju Woosuk University

Tylopeptins A and B are novel peptides from methanol extract of fruit body of mushroom, *Tylopilus neofelleus*. These novel peptides were isolated by reverse-phase HPLC. And they have been shown to consist of one acetylated N-terminal residue, fourteen amino acids, and leucinol, C-terminal amino alcohol. Sequential determination and complete ¹H and ¹³C resonance assignments were based on positive ion FAB mass spectroscopy and two dimensional NMR techniques using HOHAHA, ROSEY, HMQC, and HMBC. These compounds are active against some Gram-positive bacteria, but inactive against pathogenic fungi and Gram-negative bacteria.