

Antibacterial Activities of *Coriolus versicolor* Liquid Culture Extracts on Antibiotic Resistant Bacteria and Purification of Antibacterial Agents Therefrom

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Abstract

The liquid culture extract of *C. versicolor* grown on 12% citrus extract medium was prepared by directly boiling the whole culture broth on day 4 of the growth and then removal of mycelial debris through filtration. This extract was further extracted with equal volume of ethyl acetate (1:1, v/v). The ethyl acetate extracts showed significant antibacterial activities against *Stapylococcus aureus* CARM3230 and *E. coli* CARM1381 which are known as kanamycin and ampicillin resistant strains, respectively. The active substance was first fractionated through a Silica Gel column and then Sephadex LH-20 column. The purity of this active substance was confirmed by TLC and HPLC analysis. Structure determination work is now being undertaken in our lab.

References

1. J. W. Park, T. Kim, D. J. Lim, H. B. Lee, Y. S. Joo, and Y. I. Park, Antibacterial activities of mushroom liquid culture extracts against livestock disease-causing bacteria and antibiotic resistant bacteria (2004), *Kor. J of Mycology*, **32**(2), 145-147