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Fractionation and structural identification of antibiotic activity substances from *Streptomyces herbaricolor* HNS2-2

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ABSTRACT

Four groups of antibiotic activity compounds were separated and purified from the ethyl acetate fraction of a broth culture of *Streptomyces herbaricolor* HNS2-2. Trace analyses were performed and anti-microbial activities were determined. The antibiotic activity compounds were identified as quercetin dehydrate ①, p-hydroxyphenyl ②, 4'-hydroxyflavanone ③, and 3-hydroxyflavone ④ based on spectroscopic data. Compounds 1-4 showed significant antimicrobial activities against *Staphylococcus aureus* and the tobacco mosaic virus *in vitro*, suggesting their potential agricultural and medical applications.

KEYWORDS

Streptomyces Herbaricolor HNS2-2; Quercetin Dehydrate; p-Hydroxyphenyl; 4-Hydroxyflavanone; 3-Hydroxyflavone; Bioactivity

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