## Synthesis and antifungal activity of sulfides, sulfoxides, and sulfones based on (1S)-(-)- $\beta$ -pinene

Gavrilov V., Startseva V., Nikitina L., Lodochnikova O., Gnezdilov O., Lisovskaya S., Glushko N., Klimovitskii E.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

## Abstract

Attachment of 2-mercaptoethanol and thioglycolic acid methyl ester to the double bond of (1S)-(-)- $\beta$ -pinene yielded pinane sulfides with the cis configuration. Oxidation of sulfides with mchloroperbenzoic acid yielded the corresponding sulfoxides and sulfones. The resulting compounds were screened for antimycotic activity and the dynamics of changes in antifungal properties in sulfides-sulfoxide-sulfone series were studied. © 2010 Springer Science+Business Media, Inc.

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## Keywords

and sulfones, antifungal activity, Pinane sulfides, sulfoxides