SYNTHESIS OF PRENYLATED FLAVANONE DERIVATIVES AND
STUDY OF THEIR ANTIFUNGAL ACTIVITY

Ágnes Kenéza, Zsombor Lestár, Béla Lenkey, Sándor Antus

aUniversity of Debrecen, Department of Organic Chemistry, 4010 Debrecen Pf.: 20
bUniversity of Debrecen, Department of Microbiology and Biotechnology, 4010 Debrecen Pf.: 63
E-mail: antuss@tigris.klte.hu

During our study of biologically active prenylated natural flavonoids, we isolated the 1-4 flavanone derivatives 1-4 from Monotes engleri in 1998, from which monotesone A [(−)-S-1] and selinone [(±)-2] showed significant antifungal activities against Candida albicans [1].

In order to study the structure-activity relationship, a series of prenylated flavanone derivatives were prepared starting from resacetophenon or phloracetophenon. Their antifungal activities were examined by agar diffusion method on species of Candida albicans (ATCC 10231).