



Antibacterial activity of isothiocyanates, active principles in brassica nigra seeds (III)

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The objectives of this work consisted in the behaviour study of the following microbial cultures: *Escherichia coli*, *Candida albicans*, *Bacillus subtilis*, *Staphylococcus aureus*, *Agrobacterium tumefaciens* and *Rhizopus nigricans* in the presence of isothiocyanates (ITCs), active principles from *Brassica nigra*. Biological material used was crushed down.

The optimal conditions for the obtaining of the extracts were the following: phosphate buffer pH was 7, reaction time was of 120 ÷ 330 minutes, temperature of 55°C. The microbiological tests were done through inoculate dissemination technique on culture medium surface.

By this study was emphasized the antibacterial activity of ITCs on studied microbial cultures.