

7.2 Příloha 2 *Abstract of the diploma thesis*

CHALCONES AND THEIR ANALOGUES AS POTENTIAL DRUGS IX.

Petra Kopcová

Department of Pharmaceutical Chemistry and Drug Control, Charles University in Prague,
Faculty of Pharmacy in Hradec Králové, Heyrovského 1203, 500 05 Hradec Králové, Czech
Republic

In the theoretical part of this diploma thesis, the beneficial effects of chalcones on cardiovascular diseases are summarized. Possible mechanisms of action of synthetic and naturally occurring compounds are mentioned too. Both expected and documented effects are described.

The experimental part deals with the products of Claisen-Schmidt condensation. Pyrazine analogues of chalcones with methoxy-group in the position 4 of the phenyl ring B and different alkyls in the position 5 of pyrazine ring A were synthesized. Also some intermediate products for the condensation were prepared. Five final products resulted from the experimental work. None of them has been described in literature yet. The compounds were characterized by their melting point, NMR and IR spectra. Their purity was verified by thin-layer chromatography and elemental analysis.