



CHARLES UNIVERSITY
Faculty of Pharmacy
in Hradec Králové

**Report on part of state final examination
Defence of master's thesis**

Academic year: 2023/2024

Student's name and surname: Asal Askari
Student's ID: 47187460

Type of the study programme: Master's
Study programme: Pharmacy
Branch of study: Pharmacy
Study ID: 602769

Title of the thesis: Design, synthesis and evaluation of heterocyclic compounds with potential antimicrobial activity V
Thesis department: Department of Pharmaceutical Chemistry and Pharmaceutical Analysis (16-16190)

Language of the thesis: English
Language of defence: English
Advisor: doc. PharmDr. Jan Zitko, Ph.D.

Reviewer(s): prof. PharmDr. Petr Zimčík, Ph.D.

Date of defence: 04.06.2024 **Venue of defence:** Hradec Králové

Attempt: regular

Course of the examination: Using a PowerPoint presentation, the student presented the committee with the key results of her diploma thesis. In the introduction, she talked about antimicrobial resistance, staphylococcal infections, and quinazolinones as antibacterial compounds. She commented on the design of her target compounds, described the synthesis of the compounds, and summarized the biological results of the compounds prepared in the project. In the end, she mentioned the possible future outlook for this project. After the presentation, the supervisor, doc. Zitko, read his evaluation. Subsequently, prof. Zimčík read his opponent's evaluation. Both evaluations were generally positive, although the opponent highlighted the omission of proper referencing in the description of biological methods, missing information on who and where the biological testing was performed, and also considered the discussion of results to be too short. The student answered all the opponent's questions, and the opponent was satisfied with the answers. In the general discussion, doc. V. Nováková asked for details about the composition of the solution during crystallization and inquired about specific methods planned to be used for the verification of the supposed mechanism of action of the presented compounds. Doc. Mileín asked about the composition of the mobile phase in the flash chromatography used to purify the final compounds. Doc. Kučera asked about the methods of introducing the sample for flash chromatography, considering the fact that the final products were not soluble in the initial composition of the mobile phase. The student's answers were logical and proved her knowledge of the topic.

Therefore, the committee decided that the thesis was successfully defended.

Result of defence:

very good (2)

Chair of the board:

Doležal Martin, prof. PharmDr., Ph.D.

Committee members:

Zimčík Petr, prof. PharmDr., Ph.D.

Kučera Radim, doc. PharmDr., Ph.D.