



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: Hanieh Kamangar
Student's ID: 67645044

Type of the study programme: Master's
Study programme: Pharmacy
Branch of study: Pharmacy
Study ID: 599103

Title of the thesis: Synthesis and evaluation of novel quinazolones as potential antimicrobial compounds
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): doc. PharmDr. Mgr. Martin Krátký, Ph.D.
Date of defence: 12.09.2024 **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 discussed antimicrobial resistance, staphylococcal infections, and quinazolinones as antibacterial compounds. She explained the design of her target compounds, described their synthesis, and summarized the biological results of the compounds prepared in the project, specifically in comparison to previous work on structurally related compounds. In conclusion, she outlined possible future directions for the project. After the presentation, the supervisor, doc. Zitko, read his evaluation, followed by doc. Krátký, who read his opponent's evaluation. Both assessments were generally positive, although the opponent criticized the incomplete literature review and highlighted errors in the interpretation of the ^{13}C NMR and IR spectra. Additionally, both the opponent and mentor commented on the results of a similarity check, which indicated significant matches with a previous "twin" diploma thesis from the same research group (Askari, 2024). For detailed reasoning, refer to the mentor's and opponent's evaluations. The originality of the thesis was a key point of discussion within the Committee and among the teachers in the audience. The consensus was that, despite some problematic aspects, the thesis remained original in its most critical sections (results and discussion) and was approved for defence. The student satisfactorily answered all of the opponent's questions. In the general discussion, doc. Kučera inquired about the choice of MgSO_4 as the desiccant for drying organic phases, asking if it was

preferable to the more commonly used Na_2CO_3 . The student's responses demonstrated her adequate knowledge of the subject. As a result, the Committee concluded 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.