



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: Parinaz Tabarestani
Student's ID: 81429122

Type of the study programme: Master's
Study programme: Pharmacy
Branch of study: Pharmacy
Study ID: 603790

Title of the thesis: Design, synthesis and biological evaluation of pyrazinamide derivatives containing 1,2,3-triazole linker II
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. Miroslav Miletín, 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 introduced the Committee to the key results of her diploma thesis. In the introductory section, she focused on tuberculosis and the role of triazole in the structures of bioactive compounds. As part of describing her experimental work, she presented the design of pyrazinamide derivatives with a triazole linker and the procedures that led to their preparation. The main part of the presentation was dedicated to evaluating the relationships between the structure and the antimicrobial activity of the prepared compounds. At the end of the presentation, the student outlined possible directions for future research.

After the presentation, the supervisor, doc. Zitko, read his evaluation. He was satisfied with the candidate's experimental work and the project's overall outcome but pointed out that the thesis write-up was behind schedule. Next, doc. Miletín read his opponent's evaluation, in which he criticized the presence of many errors in the text (typographical, graphical, etc.). He also highlighted the incorrect assignment of NMR signals in four compounds and requested an erratum to correct this issue. The student satisfactorily answered all of the opponent's questions.

In the general discussion, doc. Nováková asked whether the click reaction yielded any regioisomers other than the intended one. Prof. Zimčík asked about the role of ascorbate in the catalytic system and why it causes a colour change in the copper catalyst. Doc. Kučera inquired about the reaction mechanism by which aminophenols produce side products when converted to hydroxyazidobenzenes.

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.