



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: Jorge Lozano Canadilla
Student's ID: 90648460

Type of the study programme: Master's
Study programme: Pharmacy
Study ID: 817820

Title of the thesis: Synthesis of anionic phthalocyanines
Thesis department: Department of Pharmaceutical Chemistry and Pharmaceutical Analysis (16-16190)

Language of the thesis: English
Language of defence: English
Advisor: prof. PharmDr. Petr Zimčík, Ph.D.

Reviewer(s): doc. PharmDr. Miroslav Miletín, Ph.D.

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

Course of the examination: The student presented first his thesis to the committee in the form of PowerPoint presentation where he summarized the work he has performed and introduced shortly the audience to the topic of photodynamic therapy. Subsequently, he answered the questions of the reviewer where he has shown some of the response also in the slides (e.g., mechanism of the ALA conversion to protoporphyrin IX, some of the correct formulations, etc.). Then, the discussion was opened. The following questions have been raised:
-Assoc. prof. Veronika Nováková: Did you purify all intermediates in the zinc phthalocyanine synthesis (i.e., both metal-free and magnesium complexes) or only the final complex 5A? How did you optimize the procedure for synthesis of the unsymmetrical phthalocyanine 6A?
-Assoc. prof. Radim Kučera: How do you know that you have “high-purity” compounds as you stated in your presentation? What method did you use to check the purity?
-Dr. Marta Kučerová: What happened further with your compounds? Did you send them for additional experiments or evaluation?
The student answered the question mostly correctly

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.