

CHARLES UNIVERSITY
FACULTY OF PHARMACY IN HRADEC KRALOVE
Department of pharmaceutical chemistry and pharmaceutical analysis

Study program: Pharmacy

Opinion of the Thesis Tutor/Consultant about the Diploma Thesis

Year of assignment: 2023

Year of the defense: 2024

Student: **Jorge Lozano Cañadilla**
Thesis Tutor: Prof. PharmDr. Petr Zimčík Ph.D.
Consultant:
Opponent: Doc. PharmDr. Miroslav Miletín, Ph.D.
Thesis title: **Synthesis of anionic phthalocyanines**

Scope of work, number of: 42 pages, 21 figures, 0 tables, 46 citations

Evaluation of experimental work:

- | | |
|---|-----------|
| a) Evaluation of methodological procedures: | Very good |
| b) Skill in the laboratory or in obtaining experimental data: | Good |
| c) Independence: | Good |
| d) Initiative: | Good |
| e) Diligence and conscientiousness: | Very good |

Evaluating the processing of results and writing up the thesis:

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|---|-----------|
| a) Processing of results (diligence and independence): | Very good |
| b) Interpretation and discussion of results: | Very good |
| c) Literary research: | Very good |
| d) Text processing (stylistic level): | Good |
| e) Formal level of the work (text structure, graphic design): | Good |

I recommend the thesis for recognition as a rigorous thesis

Verbal evaluation, distinctive features of the author, and the thesis:

Student came to our lab as Erasmus student from University of Alcalá (Madrid, Spain) in the autumn of 2023 and spent here about 5 months in the lab. He got the task of resynthesizing previously prepared compounds and optimizing the procedures. Jorge's academic background was, however, not completely in line with his chosen internship, which caused an initial delay of several weeks in the research progress. Despite the short duration of the internship, he did not use a significant amount of time to familiarize himself with the working style of the research laboratory which further delayed the progress in the beginning.

At a later stage, he managed to maintain a pace of work often beyond normal working hours. He also managed to gain practical experience of laboratory techniques such as handling air and moisture sensitive reactions, vacuum filtration, precipitation and chromatographic separation.

During writing the thesis, he worked independently and after short initial consultation, he prepared good draft of the thesis including reasonable literature search which was turned into acceptable form after the revision. The graphic style needed, however, substantial improvement.

Overall, his work in the laboratory brought the final aim, resynthesizing the target compounds in sufficient amounts for subsequent testing. He also established good relationship with his co-workers in the laboratory.

Evaluation of the thesis: Very good

For the defense: Recommend

In Hradec Králové

1. června 2024

signature of the opponent