



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: Michaela Hříbková
Student's ID: 23260355

Type of the study programme: Master's
Study programme: Pharmacy
Branch of study: Pharmacy
Study ID: 580963

Title of the thesis: Miniaturized solid-phase extraction in analysis of amino compounds by LC-MS/MS
Thesis department: Department of Pharmaceutical Chemistry and Pharmaceutical Analysis (16-16190)

Language of the thesis: English
Language of defence: English
Advisor: PharmDr. Lukáš Lochman, Ph.D.

Reviewer(s): RNDr. Ondřej Horáček, Ph.D.

Date of defence: 12.09.2024 **Venue of defence:** Hradec Králové
Attempt: regular

Course of the examination:

1. The student presented the key results of her diploma thesis to the committee via PowerPoint presentation. In the introduction, she talked about extraction and microextraction methods and explained the thesis's goals. Then, the preparation of the microextraction devices and optimization of the method were described. In the end, the application of the extraction method was demonstrated on the real honey samples, and the results were summarized.
2. The supervisor dr. Lochman read his evaluation of the thesis.
3. Dr. Horáček read his opponent's evaluation. Subsequently, the student answered all the opponent's questions, and the opponent was satisfied with the answers. Both evaluations were positive.
4. The discussion followed, during which the diploma candidate responded to questions from the committee members and other attendees:
Prof. Doležal: What was the origin of the honey samples? Was the honey sample standardized?
Prof. Zimčík: What is the principle of the derivatization reaction using DEEM reagent? Is there any reason for the derivatization after SPE extraction?
Doc. Kučera: What was the time of the derivatization reaction? Which volume of the sample was loaded on the sorbent during PT- μ -SPE extraction? What was the procedure for the preparation of the suspension of the sorbent and sorbent loading into the pipette tip?

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:	excellent (1)	
Chair of the board:	Doležal Martin, prof. PharmDr., Ph.D.
Committee members:	Zimčík Petr, prof. PharmDr., Ph.D.
	Kučera Radim, doc. PharmDr., Ph.D.