

**CHARLES UNIVERSITY**  
**FACULTY OF PHARMACY IN HRADEC KRALOVE**

Department of Analytical Chemistry

Study program: Pharmacy

**Opinion of the Thesis Tutor/Consultant about the Diploma Thesis**

Year of assignment: 2022

Year of the defense: 2024

Student: **Mykyta Starovoit**

Thesis Tutor: PharmDr. Juraj Lenčo, Ph.D.

Consultant:

Opponent: Doc. PharmDr. Hana Sklenářová, Ph.D.

Thesis title: **A high-temperature LC-MS method for bottom-up proteomic analyses with reduced artifacts**

Scope of work, number of: 62 pages, 17+5S figures, 2S tables, 112 citations

**Evaluation of experimental work:**

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

**Evaluating the processing of results and writing up the thesis:**

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

I recommend the thesis for recognition as a rigorous thesis

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

In his diploma thesis, Mykyta Starovoit developed and successfully applied an LC-MS method to analyze peptides in proteomic applications, aiming to reduce the artifacts generated in chromatographic columns used at high temperatures.

Throughout his experimental work, Mykyta gained proficiency in various laboratory techniques, from sample preparation to the evaluation of complex LC-MS data. He dedicated himself to his diploma thesis well beyond the usual standards. His meticulous discipline in maintaining laboratory protocols is particularly noteworthy. My intervention was minimal during the writing of his diploma thesis. Based on his results and additional findings he obtained beyond the scope of his thesis, he prepared a manuscript that is currently being finalized for submission.

Mykyta Starovoit is an ambitious student with a strong interest in instrumental analytical chemistry for the analysis of proteins. Overall, his time at the Department of Analytical Chemistry has been exceptionally productive.

**Evaluation of the thesis: Excellent**

**For the      Recommend  
defense:**

In Hradec Králové

17. května 2024

signature of the opponent