



Přírodovědecká
fakulta
Faculty
of Science

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice

STATEMENT OF THE BACHELOR THESIS SUPERVISOR

Name of the student: Zuzana Gajarská

Study program: Biological Chemistry

Department/Institute: Institute of Chemistry and Biochemistry

Thesis title: Influence of cultivation conditions and age of the culture on the production of cytosstatic secondary metabolite 2505 and its natural analogues

Supervisor: Ing. Petra urajová, Ph.D.

Supervisor's affiliation: Institute of Microbiology, Centre Algatech, Opatovický mlýn, Třeboň

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Formal and graphical quality of the thesis	0-3	3
Ability to work with literature	0-3	3
Language and stylistics	0-3	3
Formal requirements – points in total		9

(2) PRACTICAL REQUIREMENTS

Fulfillment of the aims	0-3	3
Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions	0-3	3

¹ Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

Discussion quality – interpretation of results and their discussion with the literature	0-3	3
Experimental difficulty of the thesis, independence in experimental work	0-3	3
Contribution of the thesis to the knowledge in the field and the possibility to publish the results (after eventual supplementary experiments)	0-3	3
Practical requirements – points in total		15

POINTS IN TOTAL (MAX/AWARDED)

24

(24)²

Comments of the supervisor on the student and the thesis:

Our laboratory deals with searching of cyanobacteria secondary metabolites, which have promising biological activity towards tumor cells. Influence of cultivation conditions on their production is rather neglected discipline though. Zuzana took the task very responsibly with energy and enthusiasm.

During her work, she had to learn many laboratory techniques such as cultivation media preparation, sterilization, harvesting, extraction, concentration etc. She also learnt how to operate with several sophisticated devices, for example ion exchange chromatographer, high pressure liquid chromatographer, mass spectrometer, as well as working with their software. Her work in laboratory and evaluation of the gained data was precise.

The thesis is written in logical order, Zuzana worked independently with scientific articles and other sources and I overall consider her thesis very successful and beneficial for our laboratory.

Conclusion:

In conclusion, I r e c o m m e n d.

In Třeboň date 9.6.2017

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signature

² Enter the number of points awarded.