



Přírodovědecká
fakulta
Faculty
of Science

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

STATEMENT OF THE BACHELOR/~~DIPLOMA~~^{*} THESIS REVIEWER

Name of the student: Edita Alivuk

Thesis title: Oxidation during normal and vacuum packed storage of smoked carp

Supervisor: M.Sc. Nima Hematyar

Reviewer: RNDr. Aleš Tomčala, Ph.D.

Reviewer's affiliation: Institute of parasitology, Biology centre, CAS v.v.i.

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Extent of the thesis (for bachelor theses min. 18 pages, for masters theses min. 25 pages), balanced length of the thesis parts (recommended length of the theoretical part is max. 1/3 of the total length), logical structure of the thesis	0-3	2
quality of the theoretical part (review) (number and relevancy of the references, recency of the references)	0-3	3
Accuracy in citing of the references (presence of uncited sources, uniform style of the references, use of correct journal titles and abbreviations)	0-3	2
Graphic layout of the text and of the figures/tables	0-3	2
Quality of the annotation	0-3	0
Language and stylistics, complying with the valid terminology	0-3	3
Accuracy and completeness of figures/tables/legends (clarity without reading the rest of the text, explanation of the symbols and labeling, indication of the units)	0-3	1
Formal requirements – points in total		13
(2) PRACTICAL REQUIREMENTS		
Clarity and fulfillment of the aims	0-3	2
Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions	0-3	3
Discussion quality – interpretation of the results and their discussion with the literature (absence of discussion with the literature is not acceptable)	0-3	2
Logic in the course of the experimental work	0-3	2
Completeness of the description of the used techniques	0-3	3
Experimental difficulty of the thesis, independence in experimental work	0-3	2

* Choose one

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

Quality of experimental data presentation	0-3	1
The use of up-to-date techniques	0-3	2
Contribution of the thesis to the knowledge in the field and possibility to publish the results (after eventual supplementary experiments)	0-3	2
Practical requirements – points in total		19

POINTS IN TOTAL (MAX/AWARDED)	48	32²
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Comments of the reviewer on the student and the thesis:

The thesis Oxidation during normal and vacuum packed storage of smoked carp by Edita Alivuk comprises with the theoretical and the practical part. The first part is excellently composed with exception of graphical adds. Also, theoretical part covers more than 1/2 of the thesis, but according to my opinion is this OK, because the bachelor student should learn work with information and literature. I consider the references quality and their form used in this thesis as very good.

The second part is more satisfactory than average. Materials and methods are described well, however the determination of lipid oxidation was performed via TBARS methodology despite the fact that in introduction part was mentioned that this methodology could be misleading: "Therefore, in the fatty food MDA may be attached to the aldehydes from the sample, react with them a cause not reliable spectrophotometric results". Using the mentioned methodology should be explained. Also, the design of the experiment is weird. The comparison of normal and vacuum packed was performed only for 1 week and then the data from normal packed smoked carp is missing. This fact is diminishing the level of the obtained knowledge from this experiment. I have to note that this part of the thesis should be carefully prepared by the supervisor of the bachelor thesis.

Suggestions and questions, to which the student has to answer during the defense.

Mistakes, which the students should avoid in the future:

Q1: Why the data from the normal package carp is missing?

Q2: What occurs first oxidation of proteins or lipids?

- The graphical issue

The quality level of some figures is very poor, especially must be mentioned figure 3. Description in the figure is almost unreadable and also the double bonds are viewed very confusing way - horizontally it seems as one thick line but vertically could be seen as a regular double bond. I strongly recommend using some chemical drawing software (i.e. - ChemSketch - ACDLABS - its free) for further publication. Figure 5 has also very poor graphical level. I think that the original picture was colored, but the omitting of colors lead to loss of information and unclarity of this figure. Furthermore, the letters A and B are not explained. Figure 6,7, and 8 - the graphical outputs from the thesis should be at least in the same format. The bars from fig. 6 and 8 are closed to each other however in fig. 7 is space. Also, I consider using the small letters and capitals to shown significant differences as very confusing and it takes a long time for the reader to understand these markings. I prefer marking of the significant differences with the usual star or another clarifying symbol.

² Enter the number of points awarded.

- **Annotation**

The annotation should provide brief information about the thesis, but presented one describes only the aims of study

- **References**

When you starting the sentence with the citation, please, use preferably the name of the author rather than a number of the citation. For example, Papuc et al. presented
Some of the references have the year of publication mentioned twice.

- **Abbreviation**

The list of abbreviation would be very welcome

Conclusion:

In conclusion, I r e c o m m e n d the thesis for the defense and I suggest the grade 2.³

In České Budějovice: date 8.1.2018

A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line and a small flourish.

signature

³ You can suggest a grade, which can be modified during the defense based on the presentation. However, if the reviewer is not present at the defense, the grade will not be counted.