

LATVIA UNIVERSITY OF LIFE SCIENCES AND TECHNOLOGIES
FACULTY OF AGRICULTURE AND FOOD TECHNOLOGY
FOOD INSTITUTE



**GUIDELINES FOR MASTER THESIS DEVELOPMENT AND
DEFENCE**

Academic master study programme „FOOD SCIENCE”

JELGAVA 2025

Guidelines were approved on the methodological committee meeting of Faculty of Agriculture and Food technology in January 2025.

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INTRODUCTION

The aim of the academic Master's study programme "Food Science" To educate creatively thinking, decisive higher-level specialists for the development and competitiveness of food science and production in Latvia and the European Union, providing them with comprehensive knowledge in food production and research skills for scientific and academic work.

Main tasks of Master's study programme are:

- to promote students' interest in solving problems related to the food industry by educating them about a modern, responsible and capable personality who is able to act and make decisions independently;
- to give an understanding of the theoretical foundations of the field of food science, being able to analyse and evaluate the results of scientific work and substantiate their significance in the improvement of production processes and / or development of new products;
- to prepare specialists for the food industry and scientific-research, education, state supervision and administration institutions;
- to develop preconditions for students to perform independent research and motivation for doctoral studies or promotion of self-education.

Acquired knowledge:

- is able to demonstrate in-depth knowledge and understanding of the latest trends in food science, which is the basis for creative thinking and research;
- demonstrates an understanding of food design and quality assurance conditions in product development;
- is able to demonstrate knowledge in the field of food science, analysing and evaluating the results of scientific research, substantiating their significance in the development of production technologies or products;
- is able to demonstrate the acquired theoretical and practical knowledge by choosing and applying various scientific research methods in solving specific issues.

Skills:

- is able to independently use theory, methods and skills in solving problems, to substantiate the parameters characterizing the quality of food products;
- is able to choose and apply various scientific research methods in solving issues relevant to the field;
- is able to analyse and creatively evaluate the results of the performed research work, substantiating their significance in the development of production technologies or products;
- is able to take responsibility for the results of the work of scientific groups and their analysis, to do business, to implement innovations in the food industry.

Competencies:

- is able to independently formulate and critically analyse complex scientific and professional problems in food science, substantiate the decisions made;
- is able to integrate knowledge from different fields, contribute to the creation of new knowledge and the development of research methods;
- is able to develop scientifically based food production technologies, improve the food quality system and operation for the production of consumer safe products.

Students develop a Master Thesis under the guidance of a selected supervisor on a topic that is related to current food science findings; perform a comprehensive compilation of scientific literature, substantiating the defined aim and tasks of the work; select the methods and equipment to be used for research; perform the necessary experimental research in scientific research or certified laboratories of food production companies, obtaining reliable results, in order to achieve the defined goal of the Master Thesis.

1. DEVELOPMENT OF MASTER THESIS

1.1. Aim of the Master Thesis

The main **purpose** of the Master Thesis development is to introduce abilities of Master student for solving an actual scientific problem in food sector.

Master degree applicant will acquire: **Knowledge:**

- is able to critically evaluate the findings gained from the scientific literature on the topics related to the Master Thesis (Master Thesis, Master Thesis review, pre-defence, defence)
- able to analyse and evaluate the results of scientific work, substantiating their relevance (Master Thesis, Master Thesis review, defence)
- able to choose and apply various scientific research methods in solving the tasks set in the Master Thesis (Master Thesis, defence)

Skills:

- able to independently use theory, methods and skills for the performance of Master Thesis tasks (Master Thesis, Master Thesis review, pre-defence, defence)
- able to use and methodologically substantiate the acquired theoretical knowledge in the development of a Master Thesis (Master Thesis, defence)
- able to explain and discuss the results obtained within the Master Thesis in an argumentative way (Master Thesis, pre-defence, defence)
- able to analyse and creatively evaluate the results of the Master Thesis (Master Thesis, Master Thesis review, pre-defence, defence)

Competencies:

- able to integrate knowledge from different fields, contribute to the creation of new knowledge (Master Thesis)
- able to develop research work in accordance with the 7th level of the European Higher Education Area qualification framework (Master Thesis, Master Thesis review, pre-defence, defence).

1.2. Selection and approval of the Master Thesis topic

Master Thesis should be based on acquiring and analysing the experimental data.

Volume of Master Thesis is **30 KP**.

Master student together with Master Thesis supervisor choose a topic and methodology of the research. The topic of Master Thesis should be:

- relevant, i.e., significant both scientifically and in practice;
- original.

In Master Thesis data obtained solely by author can be used. Amount of experiment repetitions should be sufficient for statistically credible data acquiring. The application for the approval of Master Thesis provisional topic should be written according to the example in Annex 1 and submitted to the director of Master's study programme at the end of the second study semester.

Before the topic is formulated, it is necessary to clearly set the scope of the research. In each thesis, only a definite part of the broader problem may be studied, so that the topic can be properly understood and analysed.

Final topic of Master Thesis will be approved by the Dean's Order not later than one week before Master Thesis submission. After approval of Master Thesis topic, its changes are not accepted.

1.3. Content of Master Thesis

Master Thesis includes two parts – main part and annexes. The main part of Master Thesis includes the basic material, annexes – supplementary experimental data and calculations, published papers or copies of poster or oral presentations.

Total volume of Master Thesis should be not more than 60 pages of A4 format, but

not less than 45 pages (without references and annexes).

Master Thesis should include following obligatory parts: title page, reports in two languages, content, introduction, main part of Master Thesis - literature review, materials and methods; results and discussion, conclusions, references.

Sections content.

Title page: formatted according to the example presented in Annex 2.

Title page should be included in total Master Thesis page enumeration, but number on this page should be omitted.

Report: gives short summary of the present research, see example in Annex 3.

Content of report should include bibliographical information on Master Thesis, aim and tasks of Master Thesis, methodology, main results and conclusions.

Report should be written in two languages, English and

Latvian. **Length of the report should not exceed one A4 page.**

Table of content: a detailed list of the thesis headings along with respective page numbers are presented in the contents.

Introduction, literature review, materials and methods, results and discussion, conclusions, list of references and annexes are listed in the contents.

Chapters and subchapters are numbered in Arabic numbers. For example – 1. Literature review; 1.1. Title of subchapter 1; 1.2. Title of subchapter 2; 2. Materials and Methods; 2.1. Title of subchapter 1, 2.2. Title of subchapter 2 etc.

Titles (headings) of the chapters and subchapters have to be short, clear and correspond to the essence of the problem.

It is not recommended to create a separate chapter, if it is shorter than one page.

Introduction: the reasoning for the analysis of the scientific problem is presented, clear

formulations of the problem, object, the aim and tasks of Master Thesis are presented and practical and theoretical **relevance** of the intended research is justified.

Length of introduction should not exceed two A4 pages.

Literature review (outline of problem, data form scientific literature): contains a critical analysis and the integration of information from number of sources, as well as a consideration of any gaps in the literature and possibilities for future research.

It is necessary to indicate current situation of the research topic, partly investigated or not investigated topic is chosen for the investigation.

Literature review should provide a comprehensive picture of the state of research problem, reveal the directions for further research, help assess the benefits and limitations of existing solutions, and substantiate possible innovative solutions to the problem. The theoretical/analytical chapter should help answer the following questions:

- what scientific literature (of what field) explores thesis-related issues;
- what issues have already been partially solved, what are the methods, solutions etc.;
- what issues were not addressed by researchers or to what issues solution methods we're not proposed;
- which scientists worked in this field and how they addressed the problem;
- what findings of research published in scientific literature describe the state of art, problems and solutions of the issues related to the thesis topic.

Literature review should be concentrated, including author personal attitude and critical view about found information.

For literature review, scientific journals, monographies, scientific manuscripts, dissertations, other scientific literature resources, data bases may be used. **Textbooks, guides and encyclopaedias are not advisable.**

Proportion of **internet resources should be not more than 20%** from total amount of used literature. Acquiring information from *Google*, *Wikipedia* and from similar resources is not acceptable.

Literature review should be concluded with author's summary or short conclusions for substantiation and necessity of the current scientific work.

The length of literature review should not exceed 25% from total thesis volume.

Materials and methods: in this chapter Master student should include information about:

research place and time, characteristics of research object, research scheme, technological scheme with technological regimes, summarise product recipes in table; describe analytical and other research methods.

It is not necessary to describe all details of well-established standard methods; it is enough to indicate standard number (LVS, ISO, AOAC, AACC and others). If method used in the present experiments is new or is modified its detailed description is necessary.

It is not necessary to include photos of the equipment used. However, specific information regarding models and producers of the equipment is required.

In this chapter, mathematical data processing methods used in the study should be summarised and described too.

The volume of material and methods should not exceed 10% of total Master Thesis volume.

Results and discussion of experimental research is carried out and described as follows:

- analysis of research results and their interpretation;
- data processing and analysis;
- verification of the suitability of findings.

Conclusions, proposals: the main results, achieved when reaching the aim of the thesis and carrying out the tasks are clearly presented in this part of the thesis.

The conclusions of a Master Thesis emphasise the following three main subjects: the work that has been carried out, the ways that the proposed solutions help to solve the researched problem.

The conclusions are drawn from the findings of current research.

Conclusions must not contain new information, which has not been described and analysed in previous parts of the thesis, as well as rules and axioms which have already been recognised in the scientific field.

The research findings provided in the conclusions are supported by the changes in the values of the criteria selected for the assessment of systems, conducted calculations and research.

The order of conclusions and recommendations may not reflect the order of the text.

The statements are grouped and arranged in order to highlight most important research

findings. Conclusions and recommendations have to be numbered.

Acknowledgment: gratitude can be expressed (if necessary) to the persons, or institutions, or laboratories, who gave significant methodological, consultative, financial or technical support.

References: provide a list of references in alphabetical order cited in this paper (see in chapter 2.5).

Annexes: guidelines for annexes formatting are available in Chapter 2.6.

Be careful with plagiarism. For more details, please see "Academic Plagiarism" (<https://explorable.com/academic-plagiarism>).

Design of master theses. The master's thesis must be thoughtfully designed. The maximum length of the thesis must not exceed the following (main body of the thesis, excluding annexes) in master's theses – 50 pages. The thesis must not include materials copied from other literary sources or the Internet, including images. If images or diagrams are necessary to illustrate the results obtained, the author of the thesis must create them himself.

1.4. Submission and reviewing of Master Thesis

There is a specific procedure for submitting a master's thesis, which must be followed in order to meet certain deadlines (Annex 5). The deadline for submitting a master's thesis is determined by an order of the Dean of the Faculty of Law.

Pre-defense

A month before the submission of the master's thesis, the director of the study program organizes its pre-defense. The scientific supervisors and faculty members participate in the pre-defense of the master's thesis. The master's student prepares a draft of the thesis and places it in the designated place in E-studies. During the pre-defense, the student gives a report (using a previously prepared PowerPoint presentation) and answers the questions asked by the faculty members. The decision on the suitability of the master's thesis for defense is formulated in the minutes of the meeting, as well as indicating the shortcomings that must be eliminated in its final version. The thesis cannot be forwarded for defense if:

- ✓ the content of the work does not correspond to the topic;
- ✓ the scope of the work is inadequate;
- ✓ the methodology has been incorrectly applied;
- ✓ signs of plagiarism and/or compilation have been noticed in the work.

Within a week after the pre-defense of the master's thesis, the master's student electronically submits information to the director of the study program on a page created by Google (placed in the e-studies study course Master's Thesis) regarding the title of the master's thesis (in English and Latvian), supervisor and reviewer (person with a doctoral degree).

Master theses preparing for submission

After a successful pre-defense, the master's student improves and prepares a properly formatted thesis for submission within the specified deadline:

- ✓ the master's student saves his master's thesis as a PDF file (*.pdf); at the bottom of the title page, placing the text "DOCUMENT SIGNED WITH A SECURE ELECTRONIC SIGNATURE AND CONTAINS A TIME STAMP", font Times New Roman, size 12 pt; **the master's student signs his/her thesis with a secure electronic signature**.
- ✓ with a **secure electronic signature** in PDF format (*.pdf) the master's thesis is signed by everyone whose Name and Surname are indicated on the title page of the thesis – the scientific supervisor and consultant(s) of the thesis confirm with their signature that the formal requirements for the design of the master's thesis have been met in the submitted thesis, as well as the recommendations and improvements that have arisen during the pre-defense have been taken into account (see Annex 5).

Registration and submission of master's thesis in the IS system

The electronic file (*.pdf) with all signatures is uploaded to the LBTU Information System (LBTU IS) using your LBTU IS user account.

The work submitted to the system is reviewed and accepted by the Food Institute clerk.

The master's thesis is then forwarded for text matching (plagiarism) checking, in accordance with the order of the Vice-Rector for Studies "On the procedure for submitting electronic copies of final theses and their checking in the plagiarism control system":

- ⌚ If, after checking the master's thesis for text consistency, signs of **plagiarism have been detected**, the student has been ex-matriculated from LBTU for dishonest studies.
- ⌚ If, after checking the master's thesis for text consistency, **NO** signs of plagiarism were found, the student sends his master's thesis to the reviewer, additionally attaching a cover letter and a review form (received electronically at the time of registration of the master's thesis).

Master's thesis review

Master's theses of the Master's study programme "Food Science" are reviewed by one

reviewer, assessing the work with a mark on a 10-point scale. Master's theses are reviewed only by persons with a doctoral degree.

After submitting the master's thesis to the LBTU IS, the master's student sends the reviewer a request to review the work by e-mail, attaching the electronic version of the master's thesis, a cover letter to the reviewer and a review form (received electronically at the time of registration of the master's thesis).

The reviewer's obligation is to review the work by the time specified in the cover letter. The reviewer reflects his assessment and conclusion in a review, which is prepared in electronic form and **signed with a secure electronic signature**. See a sample review form in Annex 3.

The reviewer discusses the content of the work with the author of the thesis and sends the review electronically to the author of the thesis and the secretary of the Master's Examination Committee (MEC) no later than 48 hours before the defense of the thesis. If the master's student and his/her supervisor disagree with the reviewer's assessment and conclusion, seeing an unbiased assessment of the work, a violation of the procedure, or raise other claims, then the author of the thesis must submit a written application to the LPTF Dean within 1 working day of receiving the review, substantiating the reasons for the claims. The Dean is obliged to organize a repeated examination of the master's thesis and appoint a new reviewer. In such a situation, both reviews are submitted to the MEC and the reviewers must attend the committee meeting in person.

The Master's thesis may be submitted for defense if the reviewer's opinion is positive. The author and the scientific supervisor are responsible for the consequences of the rejection of the thesis.

The director of the study program establishes a schedule for the defense of the thesis, indicating the order in which the applicants will appear.

1.5. Defence of Master Thesis

The presentation time of the Master's degree candidate should not exceed 10–12 minutes. If the time limit is not followed, the head of the MEC (Master's Examination Commission) has

the right to stop presentation. During the presentation, the author concentrates on the use of visual materials (tables, pictures and so on), gives a report on his work.

After the applicant's presentation, the review is read publicly. If the reviewer participates in the defence, he / she speak about the evaluated work. The applicant must provide answers to the shortcomings identified in the review, justifying whether he / she agrees or rejects them.

After the presentation of the reviews, the applicant is asked questions, first by the members of the MEC, then by other participants. The applicant must provide short, specific answers.

The members of the commission evaluate the performance of Master students, the ability to answer questions and critical remarks and conclusions of the reviewer, and record their evaluation in a form specially prepared. After the presentation of all applicants, the Master Thesis are evaluated in a closed session of the MEC and a decision is made on the awarding of the Master's degree to the applicants and the evaluation (grade).

If the decision of the MEC is negative, according to the LBTU Study Regulations, only after one year the applicant can submit supplemented and revised work repeatedly. The decision of the MEC is final. If the candidate has substantiated claims related to biased assessment, restriction of his / her rights, violations of procedures, etc., he / she has the right to submit a written appeal to the Chairman of the MEC within 24 hours after the defence of the work.

2. FORMATTING OF MASTER THESIS

The work should be formatted on A4 format (210 x 297 mm) pages in computer typesetting,

using Times New Roman font. The text should be placed on the page with 20 mm indents from the top, bottom and right edges of the page and 25 mm from the left edge.

The edges of the text should be aligned from the left and right edges (*Justify*). The beginning of paragraphs should be marked with a **1.0 cm indent**.

The **font size in the text is 12 points**, for the text in footnotes 10 points. **Chapters should start on a new page**, the font size of the **headings should be 14 points**, bold, capital letters. The space before the heading should be 6 points, after the heading should be 12 points, if it is followed by the text of the chapter, but 6 points if it is followed by the heading of a subsection. The **font size of the headings of subsections should be 12 points, bold**, written in small letters. When starting a subsection, the space before the title is 12 points, after the title is 6 points.

In the text and tables, 1.0 line spacing (Line spacing – Single) is used, without spaces between paragraphs.

Page numbers are written on a 20 mm wide strip in the lower right-hand side of the page without periods and other punctuation marks and no closer than 10 mm from the edge of the page. **The title page is not numbered**, but is included in the total numbering.

The text is divided into chapters and subsections, observing their subordinate numbering sequence. The division of subsections occurs no lower than the third level. The titles of chapters and subsections should be short and specific. Titles and subtitles should not be written on separate pages, but together with the text, centred horizontally on the page. Exceptions are the headings “CONCLUSIONS” and “REFERENCES”, which should be written on a separate page, as well as “ANNEXES” before all annexes.

No periods should be placed after headings and headings should not be underlined. Headings should be numbered with Arabic numerals (1.; 2.; 3., etc.) and written in the same way as in the table of contents; placing the heading at the bottom of the page is not allowed if the text of the chapter begins on the next page, as well as dividing the heading into two pages. If subsections are created, there should be at least two of them.

Abbreviations and symbols used in the text should be explained the first time they are used or the explanation should be placed in the references. For example, polyvinyl chloride (PVC). The same type of fractional notation should be used throughout the work to record numerical values, for example, 0.5 or $\frac{1}{2}$. In fractions, a period (.) is used as a decimal point. Words in the text are not transferred to a new line (they are not divided by a transfer sign).

Explanations are placed in references, using the automatic order of their insertion and numbering (Insert Footnote).

Scientific names of microorganisms, plants and animals in Latin are always written in italics (Italic), but other designations in their composition are in regular text. For example, *Lactobacillus acidophilus*, *L. paracasei* subsp. *paracasei* strain JCM 8133 or *Lactobacillus reuteri* LB 121. Tables, images and formulas are placed in the text where they are mentioned, if this is not possible – after the next paragraph.

Pages should be filled to the maximum. A subsection should be written on the next page only if it is not possible to place three lines of text after its title.

The text must be in good English, without grammatical errors. Appropriate professional terminology must be used.

2.1. Tables

Examples of table design Tables 2.1 and 2.2.

Table 2.1

Enterobacteriaceae log10 CFU g⁻¹ in dry seeds and sprouts both treated with ozone and untreated (Bernate & Sabovics, 2024)

Seeds type	Untreated dry seeds	Untreated soaked seeds	Untreated sprouts 72 h	Untreated sprouts stored for 7 days	Treated dry seeds	Treated soaked seeds	Treated sprouts 72 h	Treated sprouts stored for 7 days
Broccoli	n.d.*	n.d.	7.5±0.1	7.2±0.2	n.d.	n.d.	5.5±0.3	6.2±0.3
Wheat	0.8±0.2	4.8±0.2	7.8±0.1	7.8±0.1	0.2±0.1	5.2±0.2	7.8±0.2	7.6±0.2
Alfalfa	n.d.	2.3±0.2	8.1±0.1	7.6±0.3	0.0±0.0	4.3±0.3	7.2±0.3	7.4±0.3
Radish	0.2±0.1	5.4±0.2	6.8±0.1	7.2±0.2	2.5±0.2	4.9±0.4	7.9±0.3	7.1±0.1

*n.d. – not detected

Table 2.2

Number of mesophilic aerobic and facultatively anaerobic microorganisms (MAFAM) \log_{10} CFU g⁻¹ in untreated, treated dry seeds and sprouts (Bernate & Sabovics, 2024)

Seeds type	Untreated dry seeds	Untreated soaked seeds	Untreated sprouts 72 h	Untreated sprouts stored for 7 days	Treated dry seeds	Treated soaked seeds	Treated sprouts 72 h	Treated sprouts stored for 7 days
Broccoli	2.4±0.20 ^d	2.4±0.10 ^d	8.3±0.20 ^a	8.3±0.05 ^a	2.4±0.05 ^d	2.9±0.15 ^d	8.3±0.10 ^a	8.3±0.05 ^a
Wheat	4.1±0.10 ^b	5.2±0.15 ^b	8.3±0.10 ^a	8.4±0.20 ^a	3.5±0.20 ^d	5.3±0.15 ^b	8.4±0.15 ^a	8.6±0.05 ^a
Alfalfa	1.2±0.15 ^c	3.6±0.15 ^d	8.3±0.10 ^a	8.3±0.15 ^a	1.3±0.10 ^c	4.6±0.10 ^b	8.3±0.05 ^a	8.3±0.01 ^a
Radish	3.5±0.05 ^d	5.5±0.25 ^b	8.2±0.10 ^a	8.1±0.05 ^a	4.2±0.20 ^b	5.4±0.10 ^b	8.2±0.10 ^a	8.2±0.10 ^a

Note. Data are shown as mean values (n = 3) ± standard error (SE). Different letters indicate significant differences at p < 0.05 one-way ANOVA

- 1) All tables must be numbered with Arabic numerals. The numbers must be written above the table title on the right side in the font of the main text. The numbering of tables is separate for each chapter of the work; therefore, the order of tables is indicated throughout the chapter (regardless of the numbering of subsections). For example, the notation 2.3. table means that it is table 3 of chapter 2.2.
- 2) Table titles are centred horizontally and written in bold, the font size is 12 points, they are not underlined and there is no period at the end. The space between the preceding text and the table number must be 6 points, but a space of 6 points must be left after the table title.
- 3) The size of characters in tables is the same as in the main text – 12 points. If the table is large, a 10-point character size can be used, using it both in the table header and in the cells. The size of characters in the table must be the same.
- 4) When inserting a table into a work that is not created by the author himself, a reference must be made to its author and the work from which it was taken, all inscriptions and explanations in the table must be in Latvian.
- 5) References to tables must be in the descriptive part of the text. For example, “As shown in Table 2.4., the information gathered ...” or “The intensity of the yellow colour of sample A is greater than that of sample B... (see Fig. 2.4.)”.
- 6) The width of the table must not exceed the boundaries of the main text and they must be aligned within the boundaries of the main text (AutoFit to Window). The table can also be continued on subsequent pages, without a heading – the “head” (first row) of the table must be repeated on each page (Repeat as header row at the top of each page).
- 7) The column “No. p. k.” is not inserted in the table.
- 8) It is not recommended to create tables in which the number of rows and columns is 1 or 2.
- 9) Numbers of equal significance must have the same precision at least within each column (the same number of digits after the decimal separator). A period is used as a decimal separator (for example, 4.2 °C).

- 10) No cells may be left blank in the table. If an indicator is not specified, a dash (-) is used.
- 11) If all indicators included in the table have the same unit of measurement, then the abbreviated unit of measurement designation should be given at the end of the table title after a comma. In other cases, the units of measurement should be indicated in the column or row headings of the table. It is not desirable to create a column “Units of measurement”.
- 12) A chapter must not begin and end with a table.
- 13) Information in tables must be clear and easy to understand, avoiding misunderstandings.

2.2. Figures

All types of illustrative materials – drawings, diagrams, charts, photographs, etc. are images. The illustrative material inserted into the images should complement the text, facilitate its understanding and promote the perception of the material presented in the work. The images should correspond to the text, be in context with it.

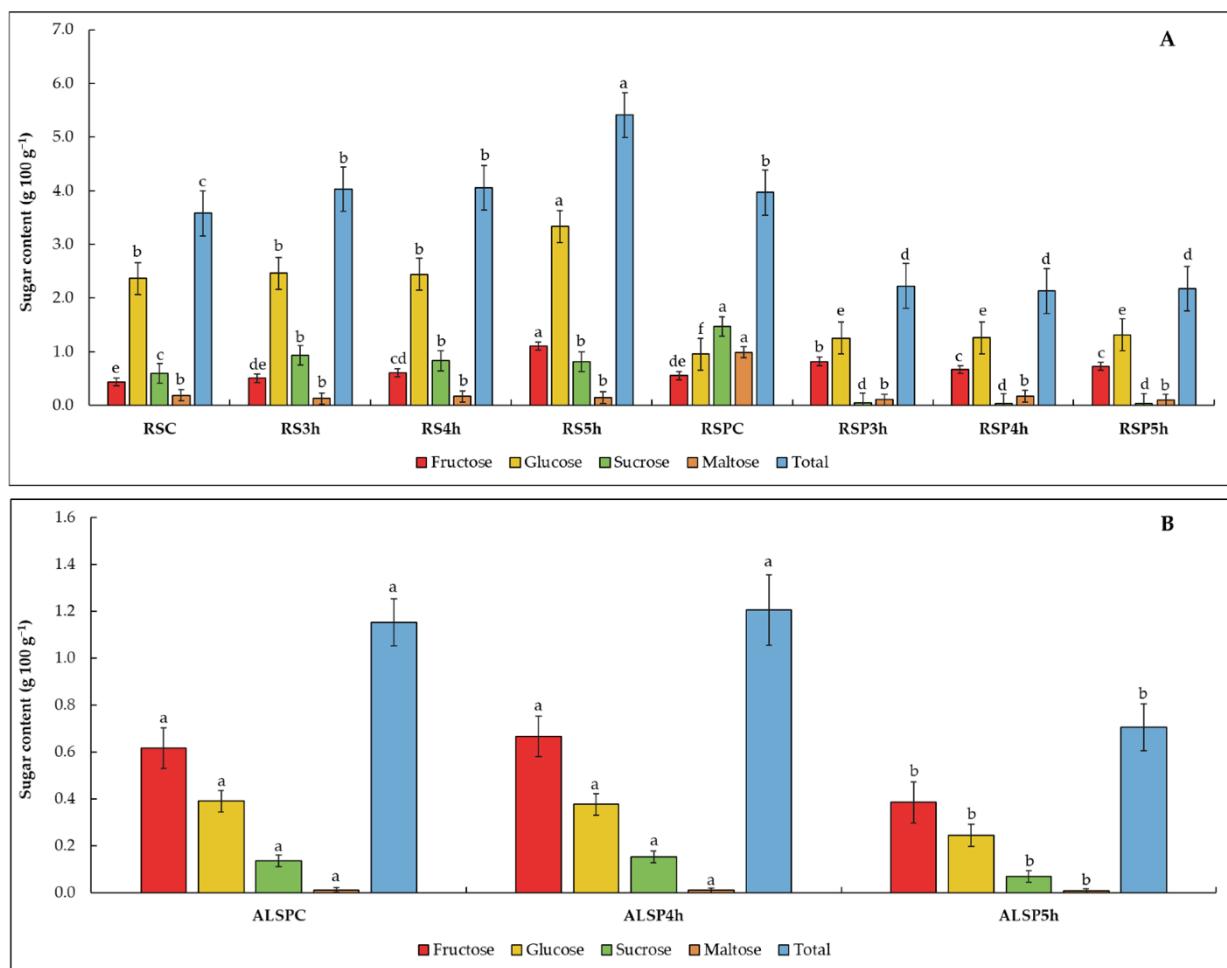


Figure 3. The content of individual sugars in radish seeds and sprouts (A) and alfalfa seeds and sprouts (B). (Bernate *et al.*, 2024)

Note: RSC—control radish seeds; RS3h—radish seeds treated with ozone for 1 h; RS4h—radish seeds treated with ozone for 4 h; RS5h—radish seeds treated with ozone for 5 h; RSPC—radish sprouts from control seeds; RSP3h—radish sprouts from seeds treated with ozone for 3 h; RSP4h—radish sprouts from seeds treated with ozone for 4 h; RSP5h—radish sprouts from seeds treated with ozone for 5 h; ALSPC—control alfalfa sprouts; ALSP4h—alfalfa sprouts from seeds treated with ozone for 4 h; ALSP5h—alfalfa sprouts from seeds treated with ozone for 5 h. Different letters (^{a-f}) in the same saccharide indicate significant differences ($p \leq 0.05$) between the samples.

- 1) All images in the work must be numbered with Arabic numerals. The image number and title must be written below the image. The numbering of figures is separate for each chapter of the work; therefore, the sequence of figures is indicated throughout the chapter (regardless of the numbering of subsections). The font size for the figure title is 12 points, the title is centred horizontally. The first number, followed by a dot, indicates the number of the relevant chapter, the second – the sequence number of the figure in this chapter.

- 2) The explanatory part of the figure (symbols and abbreviations) follows the figure title on the next line, the font size is 10 points. A 6-point space is placed after the figure title and the explanatory text.
- 3) The font size of the letters and signs in the figures is 10 points, Times New Roman. The font size of the letters and signs in the figure must be the same.
- 4) References to figures must be in the descriptive part of the text. For example, “As shown in Fig. 3.4. the information summarized ...” or “The intensity of the yellow colour of sample A is greater than that of sample B... (see Fig. 2.4.)”.
- 5) It is undesirable to use backgrounds in figures, or they must be inconspicuous.
- 6) Images may be coloured, without a special frame around the image.
- 7) When inserting an image that is not created by the author, a reference must be given to its author and the work from which it was taken. All captions and explanations in the image must be in Latvian.
- 8) Images must be placed in the work so that they can be viewed without turning the work.
- 9) Images must not directly duplicate the information contained in the tables.
- 10) A chapter must not begin and end with an image.

2.3. Formulas

Formulas in the text should be written in a separate line in the middle, using the formula preparation program *Equation* or another.

Example:

$$x = \frac{0.00014 \times k \times (a-b) \times e \times 100}{c \times d}, \quad (1)$$

Where:

x – nitrogen content in the sample, %

0.00014 – g of nitrogen, equivalents 1 mL 0.01 M NaOH, used for the titration of the control sample;

b – amount of 0.01 M NaOH in mL, used for the titration of the analysed sample;

c – sample weight, g;

d – amount of sample in mL, taken from a graduated flask for the redistillation of nitrogen;

e – volumetric flask volume, mL.

All formulas in the Thesis must be numbered with Arabic numerals, not related to chapter numbering. Formula numbers are written in parentheses opposite the formula on the right side of the page.

Size of letters, numbers and symbols in formulas must be 12 points.

A reference to the formula is needed in the text.

The units of measurement of the quantities included in the formulas shall be written after their names or numerical values in the text and in the explanations of the formula, which shall be written below the formula each in its own line.

2.4. The use of measurement units

The units of physical parameters of the SI system and their derivatives, as well as notations in accordance with the valid normative documents must be used in the work.

Abbreviated unit designations are used after the numerical values of the parameters, in the column headings of the tables and in the explanations to the formulas.

In the text, the symbols of the units of measurement are written in one line with the numerical value of the quantity. There is one letter space between the numeric value and the unit symbol.

The designations of all composite units shall be written on a single line using a negative notation, such as, for example 5 mg kg⁻¹ or 10 000 cfu g⁻¹.

2.5. References to sources of information

When using the works, ideas or insights of other authors in the development of the work, they must be indicated by giving a reference to the original source in the text. Passing off another author's work (in whole or in part) as one's own is called plagiarism and is

considered a violation of academic ethics.

References to the source of literature used must be precise so that it is possible to clearly identify the cited or otherwise used source of information.

The literature used in the work must be included in the list of references. Only those sources of information that are mentioned in the text are included in the list of references.

A reference is a short form of indication that allows you to determine from which publication an idea or quote was taken, as well as to determine its location (page) in this source. References to direct or paraphrased quotes, images, formulas, numerical material, facts, as well as opinions and borrowed thoughts by other authors must be made in any research work.

Quotations must be written in quotation marks.

The retelling of the thoughts of other authors should not be written in quotation marks, it must be objective. Rewriting the text from books is not allowed, as well as retelling the author's thoughts without indicating a reference to the cited work.

References are used together with a list of bibliographical references, using the first element and date method - at the end of the quotation, the author or title of the cited document and the year of publication are indicated in parentheses in the text – (Kūka, 2008) or (Cheese technology, 2004) or (Ciproviča, 2023) or (Straumite et al., 2022) or (Straumite et al., 2022a; Straumite et al., 2022b).

Examples:

Designing a list of literature and/or sources and references used in the text

Source type	Formatting a list of sources in a bibliography	Sample in-text citation
One author's book	Sanchez M.C. (2023) <i>Food Law and Regulation for Non-Lawyers</i> . Springer Cham. 280 p.	Sanchez (2023)
A book by two authors	Miller D.D., Yeung C.K. (2022) <i>Food Chemistry: A Laboratory Manual</i> , 2nd Edition. WILEY. 224 p.	(Miller, Yeung, 2022)
A book by three or more authors	Kārkliņa D., Muižnieks I., Rostoks N. (2014) Novel foods and genetically modified organisms. Riga: LU Academic Press. 172 p.	(Kārkliņa et al., 2014)
A book by a collective of authors	<i>Safety evaluation of certain food additives and contaminants (2011) Prepared by the 23rd meeting of the Joint FAO/WHO Expert Committee on Food Additives (JECFA)</i> . Geneva: World Health Organisation. 543 p.	(Safety evaluation of certain..., 2011)
Chapter from a book	Curtin A. C., McSweeney P. L. H. (2004) Catabolism of amino acids in cheese during ripening. In: <i>Cheese: Chemistry, Physics and Microbiology</i> . Vol. 1. General Aspects. 3rd ed. P. F. Fox, P. L.H. McSweeney, T. M. Cogan, T. P. Guinee (eds). Amsterdam: Elsevier, p. 435–454. Liceaga A. M. (2022) Edible insects, a valuable protein source from ancient to modern times. In: <i>Advances in Food and Nutrition Research</i> . Academic Press Inc., Vol. 101, p. 129–152.	(Curtin, McSweeney, 2004) (Liceaga, 2022)
Article in a scientific journal	Menon A., Stojceska V., Tassou S.A. (2020) A systematic review on the recent advances of the energy efficiency improvements in non-conventional food drying technologies. <i>Trends in Food Science & Technology</i> , Vol. 100, p. 67-76. Addo P. W., Taylor N., MacPherson S., Raghavan V., Orsat V., Lefsrud M. (2022) Impact of pre-freezing and microwaves on drying behaviour and terpenes in hops (<i>Humulus lupulus</i>). <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , Vol. 31, Article Number 100436.	(Menon et al., 2020) (Addo et al., 2022)
Regulatory acts (EP regulations, laws, Cabinet regulations, etc.)	EP Regulation (EC) No. 1924/2006 of 20 December 2006 on nutrition and health claims made on foods. [online] (accessed 17.02.2020). Available: https://eur-lex.europa.eu/legal-content/LV/TXT/PDF/?uri=CELEX:32006R1924&from=LV	(EP Regulation No. 1924/2006, 2006)
Internet source	USDA National Nutrient Database for standard reference. Release 22. [online] (accessed 17.02.2023.). Available: http://www.nal.usda.gov/fnic/foodcomp/search/	(USDA National Nutrient...)

In case if reference manager Mendeley software is used, select the style American Psychological Association.

Reference to the information obtained from the Internet is displayed in a footnote and is not included in the reference list. If the information published on the Internet contains relevant bibliographic data (author, title of the article and publication, year of publication, etc.), then the bibliographic description is presented similar to other references and is not placed in the footnote, but placed in the reference list.

The web address must be complete; entering it in the web browser address box will open the specified document directly.

The bibliography is arranged in alphabetical order. When creating a reference list, first use the alphabet of the language in which the work is written. For example, if the work is written in Latvian, English or German, then all sources of literature belonging to the Latin script are first arranged in alphabetical order, regardless of the language in which they are written. This is followed by the literature sources published in Cyrillic (Slavic) writing.

Unpublished materials

Bibliographic references for unpublished materials are based on the principles of monographic publication references. The most frequently used unpublished materials are Bachelor, Master, PhD thesis and dissertations. Copies of these publications are stored in the institutions, where the respective work has been developed and / or defended, dissertation and PhD thesis - also in the central libraries. They can be included in the common list of used literature. Other unpublished materials are reports of various institutes, reference materials, document collections, etc. The bibliographic description of these publications is not included in the common list of used literature sources, but is indicated in the footnote.

Examples of description

Semjonovs P. (2008) Prebiotic properties of fructans of different origins: doctoral thesis for obtaining a doctoral degree in the sub-sector of biotechnology. University of Latvia. Riga. 103 p.

Kozlinskis E. (2011) Development of microorganism populations in spontaneous rye bread yeast: Doctoral Thesis for the Engineering Doctor Degree in the Food Science. Latvia University of Agriculture. Faculty of Food Technology. Department of Food Technology. Jelgava: [b.i.]. 120 p.

Artificial Internet tools

AI tool used to generate text snippet

If the work uses text generated by an AI tool, it must be highlighted (e.g. in quotation marks or italics) and the name of the tool used must be indicated.

Example with reference in the text:

“The impact of artificial intelligence on the labor market is becoming increasingly significant, as it is able to automate various processes and reduce human workload” (text generated using ChatGPT4o, access date: 15.03.2025).

Example with a reference in a footnote:

*“The impact of artificial intelligence on the labor market is becoming increasingly significant, as it can automate various processes and reduce human workloads.”*¹

Footnote Reference:

1OpenAI (2025). ChatGPT-4o (Dec 17 version) [Large language model]. Accessed: 2025-03-15. <https://chatgpt.com>.

Example with reference in the bibliography:

“The impact of artificial intelligence on the labor market is becoming increasingly significant, as it can automate various processes and reduce human workload” (OpenAI, 2025).

List of sources:

OpenAI (2025). ChatGPT-4o (Dec 17 version) [Large language model]. Accessed: 2025-03-

The AI tool was only used to structure the work or correct grammar

The use of AI tools in the development of the work is described in the methodology section of the work, in the introduction or in another appropriate place, indicating:

- ✓ what AI tools have been used, e.g. ChatGPT, Microsoft Copilot, DALL-E, etc.;
- ✓ what purpose the tools were used for, e.g. text generation, data processing, idea generation, image creation, programming, etc., clearly separating the AI contribution from the work performed independently.

Example:

In the development of this work, ChatGPT (version ChatGPT-4o, access date: 15.03.2025) was used for text editing and idea structuring. DALL E (version 3, access date: 15.03.2025) was used for image generation. All analytical conclusions and interpretations of the work were made independently, based on the information obtained.

AI tool used to generate an image or table

If a figure or table was created with an AI tool, the reference must be given in the text where the figure or table is mentioned or in the title of the figure/table.

Examples:

Fig. 1. A science fiction-style visual representation of the future development of AI (image generated using DALL-E, version 3, access date: 15.03.2025.)

Table 1. Pesticide sales in EU Member States in 2024 (table generated using ChatGPT-4o, access date: 15.03.2025)

AI tool used in programming or data processing and analysis

In programming – the role of AI in the development of the program code must be noted in the text of the work, the use of the AI tool must be indicated in the code comments, the role of the AI tool must be described in the documentation, indicating both the original AI source and the changes made.

In data processing and analysis – the use of AI must be described in the methodology description, including information about the AI tool used, its version and role in data processing, indicating possible limitations.

Example in data processing and analysis:

In the text:

Data preprocessing and analysis used AutoML (Microsoft, 2025a; Microsoft, 2025b) to automatically select and configure models. This approach identified optimal parameters, but it should be noted that automatically selected models may be sensitive to outliers.

In the list of information sources:

Microsoft (2025a). GitHub Copilot (version 1.x) [Code generation model]. Used: 15.03.2025. <https://github.com/features/copilot>

Microsoft (2025b). Azure Machine Learning AutoML (version 2.0) [Automated machine learning service]. Used: 15.03.2025. <https://azure.microsoft.com/products/>

2.6. Annexes

The annexes are presented as a continuation of the main part of the Master Thesis. The annexes summarize various inputs and calculations. Other materials that are relevant to the characterization or supplementation of the main body but are not included in it are also added. There is no need to summarize in the annexes information that does not significantly affect the understanding of the body of the work. These include printouts of intermediate results of mathematical data processing, intermediate results of analyses, booklets, etc.

In a separate annex, it is useful to provide a summary of the criteria for the mathematical processing of the data, which should be presented in a tabular form. Here the indicators generated by the applied computer program are summarized and the author considers them important for the interpretation of his results. The tables must be drawn up in accordance with generally accepted rules; the use of any names or terms in a foreign language is not permitted.

The annexes are separated from the main part of the work by a separate page with the title "Annexes" in the middle.

The annexes consist of separate sections. Each individual annex begins on a new page and is numbered in the upper right corner, Annex 1; Annex 2, etc.

If tables or calculations which do not appear on the same page are inserted in the annex and are continued to the next page, the words " Annex 1 continued".

Each individual annex should have a thematic title, and the annexes should be referenced in the main body of the work.

3. INSTRUCTIONS FOR THE MASTER THESIS PRESENTATION

In the study process it is important to acquire good communication skills, to express one's opinion both orally and in writing. Acquisition of oral communication skills is also essential in professional career, the ability to present one's opinion in an argumentative manner, to substantiate and defend it. They must be mastered and improved at the same time. This is the reason for the defence of reports included in study courses, other study papers, participation in scientific conferences and defence of Master Thesis. Their goal is to develop communication skills, as industry professionals will be able to formulate, develop and defend ideas at different levels.

The presentation of the Master Thesis must be prepared with special care, it reflects the large amount of work done, and it must certify the applicant's professional maturity and compliance with the Master's degree. The analysis must be applied, it must be based on criteria for mathematical data processing, economic calculations or other arguments that prove the efficiency of the development. The conclusions and proposals should be based solely on the results of the study carried out.

When defending a Master Thesis, the presentation time should be limited to 10–12 min. The time limit is determined by the Master's examination commission. When preparing a presentation using Microsoft Office PowerPoint or other presentation tools, you need to plan

carefully so that you can:

- to acquaint the commission and other presenters with all aspects of the work: topicality of the work, aim, tasks, methods used, results obtained, conclusions, recommendations, etc.;
- to attract and keep the audience's attention to the report;
- to convince the audience about the significance of your work, the professionalism of its execution, correctness and the author's contribution;
- demonstrate your competence in all work-related matters.

The work must be presented fluently, in a logical order, in a loud, convincing voice. The information presented in visual aids (slides) should be demonstrated and commented at the right time. The text of the report should be prepared in advance, rehearsal should be provided if necessary.

It should be borne in mind that:

- listeners have not read entirely your thesis. Relying on it alone can lead to an error and "disappear" the right place in the text, which will cause confusion and ruin the defence. It is not recommended to read comments in visual aids; you have to rely on improvisation.
- the free message is much more pleasant, but the pre-composed speech can be broken down, something important can be omitted, the author will try to correct the situation, and the smooth narration may be interrupted.

This option is more useful. Prepare the full text of the presentation, but during the report use a concise version with a presentation plan, short theses, and the most important facts. By displaying the necessary information in visual aids, it will be much easier to comment on it by improvising freely.

The speech must not exceed the time limit.

The visuals are presented by the rapporteur during the presentation. These may be: multimedia projection, developed products, researched materials, videos, posters, booklets, etc. In any case, the author must make sure of the technical possibilities to demonstrate the intended visual aids before the performance. Common guidelines for the use of visual aids:

- they must be clearly visible;
- interested parties must be able to understand the information even without the rapporteur's explanations;
- they must be in close connection with the oral presentation and must be actively used;
- each of them must be exposed so that all the information in it can be received;
- be neatly designed.

The most commonly used visual material is multimedia projection (*PowerPoint*). Images (slides) must be carefully designed, considering the viewer's perceptual abilities. The main rules:

- do not overload with information, the size of the table – no more than 30 numbers;
- sufficient letters and symbols – at least 24 points for the main text;
- thoughtfully designed and neatly made, without spelling and style mistakes;
- each with a short and concise name;
- numbering so that listeners can be asked to replay a specific slide if necessary;
- include the necessary, relevant information, the results of the experiment, add also the criteria of materials;
- do not overdo it with bright or dotted fonts, excessive animation;
- balance the number of images with the expected duration of the performance.

An integral part of the presentation of the work is the questions of the evaluators and listeners, and the rapporteur's answers to them.

It is recommended to consider:

- the answers to the questions raised in the review, which are already known to the rapporteur, must be prepared in a timely and thorough manner;
- if the question asked is not fully understood, it may be asked to repeat or clarify it;
- in answering the question, if necessary, the information presented in the Master Thesis can

be used, only the rapporteur should be oriented so that the audience does not have to wait long;

- both the questions indicated in the review and the questions asked during the defence cannot be left unanswered; if a specific answer cannot be given during the defence, then choose the answer: "I am sorry, but I did not pay attention to this question; I have made an inaccuracy; unfortunately, I will not be able to answer at this time; agree, it should have been done differently";
- use professional terms, expressions, explanations when speaking and answering questions;
- the answer should be as short as possible;
- the answers must be given in the correct way; if your opinion differs, you have a different opinion, other data, other sources of information, justify it; avoid agitating emotions, express your argument in a convincing but correct form that does not offend the questioner.

Presenting is the acquisition of certain skills that can only be achieved through practice. Therefore, you need to train in front of a certain audience, while controlling your time.

LITERATURE USED FOR THE DEVELOPMENT OF THE GUIDELINES

1. Ciproviča I., Galoburda R., Kārkliņa, Rakčejeva T., Palma S. (2012) *Metodiskie norādījumi maģistra darbu izstrādei un aizstāvēšanai*. LLU, PTF. 44 lpp.
2. Ķirse-Ozoliņa A., Ciproviča I. (2025) Metodiskie norādījumi kursa darba un maģistra darba izstrādei un aizstāvēšanai kopīgās maģistra studiju programmas „Uzturzinātne” maģistrantiem. LBTU, LPTF. 2025. 38 lpp.
2. Guidelines for the Preparation of Your Master’s Thesis. [online] [accessed on 20.06.2020]. Available at: <https://www.unk.edu/academics/gradstudies/admissions/grad-files/Grad%20Files/ThesisGdlnsFinal08.pdf>
5. *The procedure for master’s thesis preparation* (2017). Methodological guidelines. For the students of Business Informatics (62109P101) study programme at VU KnF Institute of Applied Informatics. Kaunas. 40 p.

ANNEXES

Sample of Master Thesis title page

LATVIA UNIVERSITY OF LIFE SCIENCES AND TECHNOLOGIES
FACULTY OF AGRICULTURE AND FOOD TECHNOLOGY
Food Institute

Reg.No._____

Master Thesis

Investigation of factors influencing milk coagulation
for obtaining an academic
Master Degree of Engineering in Food production
technologies

Master student	Name Surname, matr. No.
Scientific supervisor	doc. Dr.sc.ing. Name Surname
Consultants	prof. Dr.sc.ing. Name Surname
	asoc. prof. Dr.chem. Name Surname

JELGAVA
20__

Report sample in English

REPORT

Bodniece K. (20___) *Allium sativum* flavour compounds as an indicator for garlic identity and quantity determination: Master Thesis. Latvia University of Life Sciences and Technologies. Jelgava: LBTU. 58 p.

The Master Thesis contains 7 tables, 20 figures and 1 annex, as well as 38 sources of literature.

The objective of this study was to investigate the aroma profile of volatile compounds in garlic subspecies originated from Latvia, to compare with aroma composition of garlic grown in the region of Midi-Pyrenees (France) and other countries.

Tasks of this study were to: 1) adapt solid phase microextraction (SPME) method for determination of volatiles composition (the technique of, holding time), 2) compare qualitative and quantitative composition of volatiles depending on garlic subspecies and varieties, 3) assess the suitability of volatiles analysis for quality control and identification of different garlic subspecies and varieties.

The Master Thesis suggests that SPME and gas chromatography (GC) methods are gentler than extraction of aromatics using steam distillation. This is testified with lesser contents of mono- and polysulphides, which usually are the transformation products of daily disulphide (DADS). SPME and GH methods are suitable for analysis of garlic flavour compounds.

It was established that hardneck garlic tends to contain more DADS, the main degradation product of allicin. Comparing to hardneck subspecies, the content of allyl mercaptan, one of the major compounds comprising „garlic breath”, was significantly lower in softneck garlic clones. Amount of cyclic compound 3-vinyl-1,2-dithiin differed considerably with higher contents in softneck subspecies. The results demonstrate softneck garlic as more suitable subspecies for long-term storage.

In general, results show no significant difference in the content of DADS and total content of other flavour compounds between hardneck and softneck garlic grown in the region of Midi-Pyrenees and Latvia. However, comparing garlic subspecies originated from France and Latvia by the content of allyl mercaptan, 1,2-dithiocyclopentane and 3-vinyl-1,2-dithiin, considerable proportional differences of these volatiles were determined. Also great difference in content of DADS among white garlic variety ‘*Blanc de Lomagne*’ (France, region of Midi-Pyrenees) and white garlic grown in other countries was established. The results of this study suggest suitability of SPME and GC methods for quality control of garlic originated from France.

Report sample in Latvian

REFERĀTS

Bodniece K. (20___) *Allium sativum* aromātiskie savienojumi kā indikators ķiploku identitātes un kvalitātes noteikšanā: zinātniskais darbs magistra grāda ieguvei. Latvijas Lauksaimniecības universitāte. Jelgava: LBTU. 58 lpp.

Darbs satur 7 tabulas, 20 attēlus un 1 pielikumu, kā arī izmantoti 38 literatūras avoti.

Darba mērķis – izpētīt Latvijā audzētu ziemas un vasaras ķiploku aromātvielu sastāvu īpatnības, salīdzināt ar Francijas Vidus-Pireneju reģiona un citu valstu izcelsmes ķiploku aromātvielu sastāvu.

Darba uzdevumi: 1) adaptēt cietās fāzes mikroekstrakcijas metodi (CGME) gaistošo savienojumu sastāva noteikšanai ķiplokos (sasmalcināšanas veids, izturēšanas laiks), 2) salīdzināt dažādu pasugu un šķirņu ķiploku gaistošo savienojumu kvantitatīvo un kvalitatīvo sastāvu, 3) novērtēt gaistošo savienojumu analīzes piemērotību dažādu pasugu ķiploku noteikšanai un šķirņu kvalitātes kontrolei.

Maģistra darba rezultāti rāda, ka CFME un gāzu hromatogrāfijas (GH) metodes ir saudzējošākas nekā aromātvielu ekstrakcija, izmantojot tvaika destilāciju, par ko liecina nelielais mono- un polisulfīdu saturs, kas parasti ir dialildisulfīda (DADS) transformāciju produkti. Līdz ar to CFME un GH metodes ir piemērotas ķiploku aromāta noteikšanai. Noskaidrots, ka ziemas ķiploki tiecas saturēt lielāku allicīnu galvenā sabrukšanas produkta dialildisulfīda daudzumu. Salīdzinājumā ar ziemas pasugu, vasaras ķiploki saturēja būtiski mazāk alilmerkaptānu jeb savienojumu, kas ir viens no galvenajiem ķiploku elpas veidošanā pēc garšaugu lietošanas uzturā. Vasaras pasugu no ziemas ķiplokiem atšķīra ievērojams cikliskā savienojuma 3-vinil-1,2-ditāna satura pārsvars. Darba rezultāti liecina par to, ka ievērojami mazāku DADS zudumu dēļ, vasaras ķiploki ir piemērotāki ilglaicīgai uzglabāšanai.

Francijas Vidus-Pireneju reģiona ķiploku analīžu rezultāti rāda, ka pēc ilgāka uzglabāšanas laika to DADS un pārējo aromātisko savienojumu kopējais saturs nav būtiski atšķirīgs no Latvijā audzētajiem ziemas un vasaras ķiplokiem, taču, salīdzinot Latvijā un Francijā audzētos ķiploku alilmerkaptānu, 1,2-ditio- ciklopentānu un 3-vinil-1,2-ditāna saturu atkarībā no ķiploku pasugas, noteiktas ievērojamas minēto savienojumu proporciju atšķirības. Savukārt Vidus-Pireneju reģiona baltās šķirnes ķiploku ‘Blanc de Lomagne’ un citu valstu balto ķiploku starpā konstatētas būtiskas DADS satura atšķirības, kas, iespējams, ļautu izmantot CFME un GH-LJD metodes Francijas ķiploku kvalitātes kontrolei.

Review form

LATVIA UNIVERSITY OF LIFE SCIENCES AND TECHNOLOGIES

FACULTY OF AGRICULTURE AND FOOD TECHNOLOGY

FOOD INSTITUTE

Academic Master's study programme "Food science"

Review of Master Thesis

Author of Master Thesis _____
(*Name and Surname*)

Title of Master Thesis _____

Volume of master thesis is ____ pages, thesis includes ____ tables, ____ figures, ____ annexes and
____ literature resources.

1. Actuality and importance of the research, author's contribution in problem exploration.

2. Formulation of the aim and tasks of the present Master Thesis.

3. Materials and methods: chosen objects and investigation methods of the present research – its
conformity to aim of Master Thesis; methods for mathematical data processing.

4. Results – interpretation of achieved results according to aim and tasks of Master Thesis.

5. Analysis of scientific and practical contribution, conclusions and proposals.

6. Errors and shortages sighted in the present Master Thesis.

Conclusion. Volume and quality of the present Master Thesis confirm, that author of present Master Thesis has _____ competences appropriate Master's level and chosen speciality.

(achieved / not achieved)

Master Thesis should be _____ for defence.

(recommended / not recommended)

The grade of Master Thesis is: _____

(grade in 10-point scale)

Reviewer _____

(position, scientific degree, name and surname)

(data)

(signature)

Example of author's statement

MASTER THESIS AUTHOR'S STATEMENT

I, *Name and Surname*, certify that the Master's thesis was developed independently and that it does not contain any infringement of the intellectual property rights of other persons or plagiarism. The works and data sources of other authors used, as well as my own previously created and published works, are indicated in the references. The electronic version of the Master's thesis corresponds to the bound version.

Artificial intelligence tools ARE / ARE NOT used as aids in the development of the master's thesis. *(leave the necessary)*

Artificial Intelligence (AI) tool indicates the name and version of the AI tool, e.g. ChatGPT 3.5 (or 4.0) used indicates the purpose of using AI, e.g. idea generation, text paraphrasing, text language improvement, scientific research search, etc. Master's thesis indicates the chapters of the thesis in which the chapter/s were used.

I am aware that I am responsible for the content of the developed master's thesis, including the parts that use AI tools.

Such a paragraph should be prepared separately for each tool used!

If AI tools are not used, then this paragraph is not added!

Master's thesis submission and review

