ORIGINAL SCIENTIFIC PAPER

Instructions for original scientific paper:
Your paper should be consisted of following five general sections:

Numeration	Headings
1	Introduction
2	Materials and Methods
3	Results and discussion
4	Conclusions
Acknowledgement (optional)	
5	References

What Goes into Each Section	
Paper headings	What it should contain?
1. Introduction	Introduce the question/s tested by the experiments described in the paper
	Explain why this is an interesting or important question/s Posseribe the approach used in sufficient details (that a reader who is not familiar
	➤ Describe the approach used in sufficient details (that a reader who is not familiar with the technique will understand what was done and why), and
	 Very briefly mention the conclusion of the paper.
2. Materials and Methods	This section should contain a description of the materials used and methods
2. Materials and Methods	employed in form which makes the results reproducible, but without detailed
	description of already known methods.
	Important notes:
	•
	The details of a published protocol do not need to be reproduced in the text but an appropriate reference should be cited – e.g., simply indicate "as
	described by Timperley et al. [4]". Any changes from the published protocol should
	be described.
	> Do not quote or cite your laboratory manual!
	> If applicable, provide a brief description of statistical tests you have used
	(statistics are methods!)
3. Results and Discussion	Results
	➤ Summarize the data collected and if applicable their statistical treatment
	(includes only relevant data, but gives sufficient detail to justify your conclusions).
	➤ Use equations, figures, and tables only where necessary for clarity and brevity.
	Discussion
	The purpose of the discussion is to interpret the results.
	Be objective; point out the features and limitations of the work.
	Relate and compare your results to current knowledge in the field and to your
	original purpose in undertaking: Have you resolved the problem? What exactly have you contributed? Briefly state the logical implications of your results.
	 Suggest further study or applications if warranted.
Acknowledgement (optional)	
Acknowledgement (optional)	Advice or other kinds of assistance (thinking up, designing, or carrying out the work) can be included in this section.
	Important notes:
	➤ Authors always acknowledge outside reviewers of their drafts and any sources
	of funding that supported the research.
	> Acknowledgments are always brief and never flowery.
4. Conclusions	The purpose of the Conclusions section is to put the interpretation into the
	context of the original problem which has to be brief.
	> Your conclusions should be based on the evidence presented.
	> Summarize your major points succinctly.
	Point out the significance of your results and discuss the open questions that
	remain in the area and future directions.
	Important note:
	➤ Do not include irrelevant material.
5. References	➤ Literature references should be numbered and listed in order of citation in the
(Literature cited)	text.
	➤ In the text, enclose reference numbers in square brackets, e.g. [1], [2], [3] etc.
	> They should be selective rather than extensive.
	Important notes:
	> Avoid references to works that have not been peer-reviewed.
	> Avoid using endnotes or footers.

PAPER ELEMENT RULES

Tables

If applicable, you should present Table/s in your manuscript. The Tables have to be cited in the text consecutively.

Example 1- In order to prevent the growth of Legionella spp. different hot and cold water temperatures are required (Table 1)

Example 2 - In Table 2 is presented

- Each table needs a short descriptive title above it (Arial font size 9, bold) and should be numbered consecutively with Arabic numerals (see Table title in the example below).
- > Table column headings should clearly define the data presented.
- ➤ If necessary, suitably identified footnotes (font Arial size 8) should be typed below the table and should be referred to by superscript lowercase letter.

Table from example (with footnote)

Table 1. Water temperatures required in hot and cold water systems in order to prevent the growth of Legionella spp.

Water system	Safe operating temperature
Hot water storage (calorifier)	At least 60 °C
Hot water distribution	At least 50 ⁰ C
Cold water storage and distribution	*20 ⁰ C or below

^{*}Impossible in the tropics and very difficult elsewhere in the summer months. The first objective must always be to keep the system clean and to avoid water stagnation.

Important notes:

If applicable, take care to include all the units of measurement.

Figures

Figures (photographs, illustrations, diagrams and schemes) need to be cited in the text consecutively. Example 1- Taking a lubrication survey is a must (Figure 1).

Example 2 – In the Figure 2 is shown

- Figures should be numbered consecutively with Arabic numerals in order to which they are referred.
- Make sure that the **Figure caption** (text explaining figure) **is included after the figure or image** (below it).
- ➤ Each figure or group of Figures should be planned to fit, after appropriate reduction, into the area of either one or two columns of text. The **maximum finished size of a Figure is 8.0 cm width** (Example Figure 1). Be careful about the details which should be visible in this given size (Bad example Figure 2).
- Figures should be also sent in electronic form as TIFF or JPG files with minimum 300 dpi or higher resolution.

Figure examples

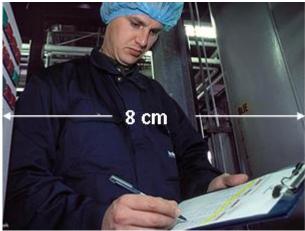


Figure 1. Taking a lubrication survey

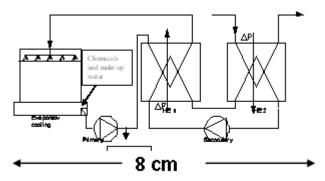


Figure 2. Cooling method with cooling tower loop

Units

The **SI** (Systéme Internationale d'Unites) for quantities and units **should be used throughout the whole text**. If nomenclature is specialized, nomenclature section should be included at the end of the manuscript, giving definitions and dimensions for all terms.

The names of chemical substances should be in accordance with the Le Système Internationale d'Unitès

- SI. The results of elemental analyses of organic compounds should be given in the following form:
- ➤ Anal. C₁₂H₁₆O (176.26).
- Calc'd: C 81.77: H 9.15: O 9.08 %.
- Found: C 81.63; H 9.36; O 9.01 %.

When a large number of compounds have been analyzed, the results should be given in tabular form.

The names of microorganisms should be given in *italic* lettering.

Microorganisms are named using binomial nomenclature (viruses are exceptions)

Binomial nomenclature employs the names of the two lower level taxa, genus and species, to name a species

Conventions when using binomial nomenclature include:

- Genus comes before species (e.g., Escherichia coli).
- Genus name is always capitalized (e.g., Escherichia).
- > Species name is never capitalized (e.g., coli).
- Both names are always italicized (e.g., Escherichia coli).
- The genus name may be abbreviated but only used in conjunction with the species name (i.e., E. coli)

When naming microorganism strain name than the genus name comes first, species name second and strain name last and never capitalized. Everything should be *italicized* except prefix subsp. (e.g. *L. lactis* subsp. *lactis*).

Citations

It is essential to credit published papers for work mentioned in your manuscript.

When citing in the text the surname of **one or two authors may be given** (example: Wirtanen and Raaska [6]), whereas <u>in case of more than two authors they should be quoted only the name of first author *et al.* (example: Lelieveld *et al.*, [2]).</u>

Important notes:

- In text citations should refer to reference list.
- Do not rewrite title of references in text.

Abbreviations

Use standard abbreviations (e.g. hr, min, sec, etc) instead of writing complete words.

- ➤ Define all other abbreviations the first time they are used, and then subsequently use only the abbreviation [e.g. Ampicillin resistant (AmpR)].
- As a general rule, do not use an abbreviation unless a term is used at least three times in the manuscript.
- With two exceptions (the degree symbol e.g. 10 °C and percent symbol e.g. 1%), a space should be left between numbers and the accompanying unit (e.g. 1 cm).
- For litre is used abbreviation L and not I (e.g. 1 L, 1 mL etc).
- In general, abbreviations should not be written in the plural form (e.g. 1 mL or 5 mL, not mLs).

References

Literature references should be:

- A. Numbered with Arabic numerals in square brackets and
- B. Listed in order of citation in the text.

References should be cited as follows:

Books/Manuals:

- [1] Lelieveld M. L. H., Mostert A. M., Holah J. (Eds). (2005). *Handbook on hygiene control in the food industry*. Woodhead Publishing Ltd, Cambridge, UK.
- [2] Chum H., Baizer M. (1985). *The Electrochemistry of Biomass and Derived Materials*, ACS Monograph 183, American Chemical Society, Washington, DC, pp. 134–157.

Book chapters:

[3] Timperley D. A., Lawson G. B. (1979). *Test rigs for evaluation of hygiene in plant design*. In: Jowitt R. (ed.), Hygienic design and operation of food plant. Ellis Horwood Publishers, Chichester, 79 106.

Journals:

[4] Graßhof A. (1980). Studies on the flow behaviour of fluids in cylindric dead spaces in pipeline systems. Kieler Milchwirtschaftliche Forschungsberichte 32 (4), pp. 273-298.

Scientific meetings:

[5] Wirtanen G., Raaska L. (2005). *Food safety regulations, standards and guidelines in Europe*. In 36th R3-Nordic Symposium & 5h European Patenteral Conference, Linköping, Sweden, pp.151-160.

Standards/Documents:

- [6] DIN. (1998). DIN 11851: Fittings for the food, chemical and pharmaceutical industry Stainless steel screwed pipe connections Design for rolling in and welding-on.
- [7] EHEDG. (2004). EHEDG Doc. No. 2: A method for the assessment of in-place cleanability of food processing equipment. (3rd Ed.)

Laws/Regulations/Rulebooks:

- [8] Republic of Macedonia Government. (2010). Law on Food Safety. Official Gazette, 157/10.
- [9] European Parliament and Council. (2004). *Regulation (EC) No 852/2004 on the Hygiene of Foodstuffs*. O. J. L 139/1.
- [10] Republic of Macedonia Food Safety Agency. (2010). *Rulebook on Nutritional and Health Claims for Commercial Purposes in Food labelling, Presentation and Advertising.* Official Gazette, 65/13.

Online citation:

For the **web references**, as a minimum that should be given are the full URL and the date when the citation is accessed. Any further information, if available (author names, dates, reference to a source publication, etc.) should also be given.

Example:

- [11] Jensen B. B. B., Friis A. (2003). *Critical wall shear stress for the EHEDG test method*. Chemical Engineering and Processing, 43
- <URL:http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TFH-492058Y1&_user=10&_cover Date=07%2F31%2F2004&_rdoc=1&_fmt=high&_orig=gateway&origin=gateway&_sort=d&_docanchor=& view=c&_searchStrld=1739002169&_rerunOrigin=google&_acct=C000050221&_version=1&_urlVersion=0 &_userid=10&md5=01d8a56c3edfe7f72149dee479345c5b&searchtype=a. Accessed 16 July 2004.</p>