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Keywords: Bio-extract, Green mussel, Shell, Waste (allow up to 5 words, alphabetical order)

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Citation

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Introduction (Level I heading: Cordia New 14, Bold)

Green mussels are an economic aquatic marine shellfish in Thailand due to their low price and their Citation in various nutritional components, such as protein, vitamins and minerals (Strunk and White, 1979; Morgan, 1999; text order Cordia New by the year Chantiratikul et al., 2016; Zhu et al., 2016). The mussels are processed into high value seafood products using 14 pt different types of processing such as drying, pickling, boiling and freezing)...... Citation in text: arrange entries in alphabetical order when the year publication of Materials and Methods (Level I heading: Cordia New 14, Bold)

Preparation of green mussel shell for non-aerated fermentation (Level II heading: First letter of each word is uppercased, Italic, Align-left)

Samples of green mussel shell were collected from a community that processed green mussel in Samut Songkhram and Samut Songkhram province, Thailand. The shells were cleaned of tissue scraps and barnacles and then dried before grinding the shell in pieces approximately 2.5 cm in length (size of shell up to 1 inch).

The composition used in fermentation involved: ground green mussel shell, molasses, water and Microbial activator Super LDD 2. The proportions used were based on Loth (1999). The experiment involving green mussel shell non-aerated fermentation was divided into two treatments with three replications (Table 1): Table in treatment 1, the composition proportions followed the formula of Shewale et al. (2016); and treatment 2, added 60% (by volume) of molasses to treatment 1. The proportions for non-aerated fermentation of green mussel shell are shown in Table 1.

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Table 1 Selected phytosterol in rice bran stearine (RBS) from winterizing step, coconut oil (CO) and palm kernel

oil (PKO)			use a superscript letter		
Type of oil	β-sitosterol	Campesterol	Stigmasterol	Total phytosterol	
rype or on	(mg/100 g)	(mg/100 g)	(mg/100 g)	(mg/100 g)	
RBS	1508.50±6.36 ^a	341.75±9.61 ^a	2141.50±149.20 ^a	3991.50±146.37 ^a	1.0 Line
CO	12.11±0.16 ^b	1.72±0.28 ^b	11.43±0.31 ^b	25.26±0.76 ^b	spacing
PKO	23.16±1.10 ^b	1.48±0.08 ^b	11.83±0.38 ^b	36.47±1.40 ^b	

^{*}Means \pm SD in the same column followed by different superscripts are significantly different (p < 0.05)

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Investigation of composition of green mussel shell before and after non-aerated fermentation

The amounts of calcium, chitin and protein in the green mussel shell were analyzed before and after 15 wk of fermentation. Quantification of calcium content in the green mussel shell followed Association of Analytical Chemists (2000). A sample (1 g) of the shell was added to 69% HNO₂ and HClO₄ (ratio 1:2) and heated

number

on a hot plate set up in a fume hood for digestion of the shell. Diluted shell digested solution was made up to 100 mL with deionization water. The wavelength for calcium analysis was 422.7 nm and the radiation of the calcium absorbed was compared with a calibration curve and the calcium content in the shell was shown as a calcium oxide (CaO) value (Palma et al., 2009; Chantiratikul et al., 2016).

Chitin and chitosan were determined according to Strunk et al. (1979) and Isnaeni (2007). A sample of crushed green mussel shell (100 g in 1 cm pieces) was mixed with 1M NaOH (ratio 1:10 weight per volume, w/v) and left on a magnetic stirrer at 100°C for 4 hr. The sample was filtered, washed with distilled water and adjusted to pH 7 before being dried in an oven at 50°C for 24 hr. Then, the green mussel shell residue was weighed. The shell residue was added to 0.68 M HCl (ratio 1:10 w/v), soaked for 6 h and then filtered with the reaction with the 0.68 M HCl repeated 5–6 times or until no gas bubbles were produced. After washing the sample with distilled water and adjusting to pH 7 (based on a pH paper test), the pigments were removed by soaking in 99.5% acetone and then in 100% methanol. The soaking was repeated until no color was evident in the solvent. Then, the green mussel shell residue was dried in a hot-air oven at 50°C for 24 hr, weighed and the amount of chitin was determined according to Equation 1:

Acid-base titration method

insert symbol

of $^{\circ}$

Degree of deacetylation (DD) of chitosan was determine by using Acid-base titration (Dutta and Priyanka, 2022). The DD of each chitosan sample was calculated using the following Equation 2:

% of DD =
$$\frac{(v1 - v2) \times 16}{v1 \times 9.94 \times x} \times 100$$
 (2)

where x is the weight of dried chitosan; V1 = volume of chitosan solution prepared in 0.1 N HCl solution in mL; V2 = volume of 0.1 N NaOH in mL; 9.94 is the theoretical value of % NH₂ group content of chitosan

Statistical analyses

Data were analyzed using one-way analysis of variance with significance tested at p < 0.05 (R Core Team, 2014). All statistical analyses were performed using the SPSS software (version 11, SPSS Inc.; Chicago, IL, USA)

Composition of green mussel shell before and after non-aerated fermentation

Before fermentation, the mean amounts (±SD) of calcium, chitin and protein were 53.97±6.56% CaO%,

26.28±2.12% and 3.58±0.14%, are shown in Fig. 1 and Fig. 2

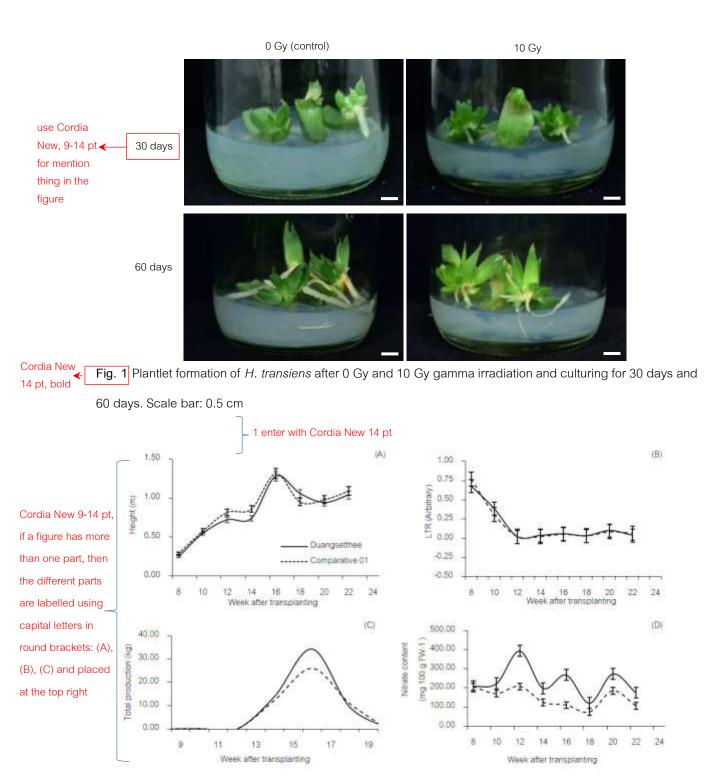


Fig. 2 Physiological parameters change of two hot-pepper cultivars after transplanting in an open field: plant height (A); light transmission ratio (B); fresh production including green and red fruits (C); nitrate content in leaves of two hot pepper cultivars (D)

Conflict of Interest

The authors declare that there are no conflicts of interest.

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Acknowledgements

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- 1. Paper size A4 (8.27"×11.69") vertical
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Form of number and symbols

1. Numbers and symbols

- Système International (SI) units are used
- Temperatures are given in degrees Celsius, 33°C, 25-30°C
- Liter always has a capital letter: mL/s, µL,
- Superscripted ordinal qualifiers after number: 1st, 2nd, 3rd, 4th
- Use "en dash (-)" for ranges of number such as: 1991-1996, 25-30 °C,
- Use "h" for hour unit (no full stop): 2-3 hr
- Use repetitive/serial units: 25%, 60% and 74% (no space between percent symbol and number)
 - Use "insert symbol" function to insert the symbol as: 2.4×610⁻², 60°C, 56.09±0.02

2. Statistics

- For p value, use an italicized lowercase letter, with a space on either side: p < 0.05; p = 0.562

- For sample size, use an italicized lowercase, with space on either side: n = 36
- Student's t test not Student's t-test and no italics and similarly for F test
- SD value no italic
- No space between mean±SD value; 12.11±0.16

Form of in-text citation and References

1. In-text citations

Writing format of the in-text citation as shown in the table below

Type of citation	Citation at the beginning	Citation at the end of a sentence	
Type of Citation	of a sentence		
One author	Walker (2007)	(Walker, 2007)	
Two authors	Walker and Smith (2004)	(Walker and Smith, 2004)	
Three authors or more	Walker et al. (2004)	(Walker et al., 2004)	

Adapted from "The Chicago Manual of Style, 17th ed." by The University of Chicago. 2017.

2. References

- Authors' name, use this form: Author, A.A., Author, B.B., Author, C.C. year. List author's surname and followed by abbreviation of first name (include middle name).
- Use "et al." for author more than 9 person after the 3rd author name, for example Zhu, F., Chen, J., Xiao, X., et al. 2016.
 - Use En Dash (-) for number ranging such as "14: 153–175, pp. 54–62"
- Title name: for book; use capitalize for first letter each word, for article; use capitalize for first letter of first word except special name
- About location: The name of United States and territories are abbreviated in the reference list. To cite locations outside the United States, spell out the city and the country names. For example,

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 Gaithersburg, MD, USA
 Bangkok, Thailand
 Oxford, UK
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- If the original version is not English, provide original language in square bracket after the reference, for example [in Thai], [in Indonesian], [in German] (see 6. References another language)

Example of References

1 Book:

a. Book

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Example:

Morgan, L. 1999. Hydroponic Lettuce Production: A comprehensive, Practical and Scientific Guide to Commercial Hydroponic Lettuce Production. Casper publication. Australia.

Wyn, J.R.G., Brady, C.G., Speirs, J. 1981. Recent Advances in the Biochemistry of Cereals.

Academic Press. London, UK.

b. Book with edition

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Title of Book, ordinal number ed. Publisher Name. Country.

Example:

Association of Official Analytical Chemists. 2000. Official Methods of Analysis, 17th ed. The Association of Official Analytical Chemists. Gaithersburg, MD, USA.

Strunk, Jr., W., White, E.B. 1979. The Elements of Style, 3rd ed. Macmillan. New York, NY, USA.

c. Book chapter in book with editors

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Title of chapter. In: Author, A.A., Author, B.B., Author, C.C. (Eds.). Title of book. Publisher Name. Country, pp. xx–xx.

Example:

Loth, G.R., Hemgesberg, L.B. 1999. How to prepare an electronic version of your article. In: Jones, B.S., Smith, R.Z. (Eds.). Introduction to the Electronic Age. E- Publishing Inc. New York, NY, USA, pp. 281–304.

2. Journal publication

a. Journal article with DOI link

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Article name. Abbreviations name of journal.

Volume: xx–xx. doi.org/xxxx or doi: 10.xxxx

Example:

- Costa, B.H.G., de Resende, M.L.V., Monteiro, A.C.A., Ribeiro Júnior, P.M., Botelho, D.M.D.S., Silva, B.M.D. 2018. Potassium phosphites in the protection of common bean plants against anthracnose and biochemical defence responses. J. Phytopathol. 166: 95–102. doi.org/10.1111/jph.12665
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 - b. Journal article without DOI link

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Article name. Abbreviations name of journal. Volume: xx–xx.

Example:

- Blanchard, M.G., Runkle, E.S. 2006. Temperature during the day, but not during the night, controls flowering of *Phalaenopsis* orchids. J. Exp. Bot. 57: 4043–4049.
- Chantiratikul, A., Borisuth, L., Chinrasri, O., Saenthaweesuk, N., Chookhampaeng, S.,

 Thosaikham, W., Sriart, N., Chantiratikul, P. 2016. Evaluation of the toxicity of selenium from hydroponically produced selenium-enriched kale sprout in laying hens. J. Trace

 Ele. Med. Biol. 35: 116–121.

**The list of abbreviations used for journal titles:

https://guides.lib.berkeley.edu/bioscience-journal-abbreviations
https://www.library.caltech.edu/journal-title-abbreviations
https://images.webofknowledge.com/WOK48B5/help/WOS/A_abrvjt.html
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c. Journal article that has not a abbreviation name

Form:

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Example:

Arakawa, T., Timasheff, S.N. 1982. Stabilization of protein structure by sugars. Biochemistry 21: 6536–6544. doi.org/10.1021/bi00268a033

Myers, N., Mittelmeier, R.A., Mittelmeier, C.G., da Fonseca, G.A.B. Kent, J. 2000. Biodiversity hotspots for conservation priorities. Nature 403: 853–858. doi.org/10.1038/35002501

3. Thesis

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Title. Ph.D./M.Sc. thesis, Faculty, University. City, Country.

Example:

Isnaeni, N.F. 2007. Product formulation of pure instant potatoes ((*Ipomoea batatas* (L.) Lam) as one of staple food diversification. M.Sc. thesis, Faculty of Agricultural Technology, Bogor Agricultural University. Bogor, Indonesia.

Pinitpaitoon, S. 2012. Enhancing productivity of red clay soil for maize cropping by organic fertilizer application in combination with mineral fertilizers. Ph.D. thesis, Graduate school, Kasetsart University. Bangkok, Thailand.

4. Proceedings/Research report

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Title. In: Name of proceedings. City, Country, pp. xx–xx.

Example:

Bussabong, N., Songkumarn, P., Tongsri, V. 2018. Disease characteristics and infection of *Curvularia* sp., the causal agent of Hom Thong banana leaf spot disease in Nong Khae district, Saraburi province. In: Proceedings of 16th National Horticulture Congress. Phitsanulok, Thailand, pp. 637–644. [in Thai] Vergara, B.S., Pateña, G., Lopez, F.S.S. 1982. Rapid generation advance of rice at the International Rice Research Institute, IRRI Research Paper Series No. 84. International Rice Research Institute. Los Baños, Philippines.

5. Website

Form:

Author, A.A., Author, B.B., Author, C.C. Year. Title. City, Country. http://xxxx. Date of searching.

Example:

Nabhitabhata, J., Chan-ard, T. 2005. Thailand Red Data: Mammal, Reptiles and Amphibians.

Office of Natural Resources and Environment Policy and Planning. Thailand.

https://www.pangolinsg.org/wpcontent/uploads/sites/4/2018/06/Nabhitabhata_Chan_ard

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The Thai Tapioca Development Institute. 2019. Harvested Area and Production, Past Years. https://tapiocathai.org/English/L1 e.html, 5 September 2021.

6. References another language

If the references were translated to English, the author must be providing the name original language in bracket at the end of text see an example below.

Example:

- Bleeker, P. 1850. Contribution to the knowledge of the ichthyological fauna of Borneo, with description of 16 new species of freshwater fishes. Nat. Tijdschr. Ned. Ind. 1: 1–16. [in Dutch]
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