

Confirming submission to Heliyon

1 message

Heliyon <em@editorialmanager.com> Reply-To: Heliyon <info@heliyon.com> To: Sri - Raharjo <sraharjo@ugm.ac.id> Mon, Dec 13, 2021 at 7:03 PM

CC: "Miftakhur Rohmah" miftakhurrohmah81@gmail.com, "Anton Rahmadi" antonrahmadi@gmail.com

This is an automated message.

Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary mixtures of palm stearin and palm olein

Dear Dr. Raharjo,

We have received the above referenced manuscript you submitted to the Food Science and Nutrition section of Heliyon. It has been assigned the manuscript number HELIYON-D-21-11234. To track the status of your manuscript, please log in as an author at https://www.editorialmanager.com/heliyon/, and navigate to the "Submissions Being Processed" folder.

Thank you for submitting your work to Heliyon, an open access journal that is part of the Cell Press family.

Kind regards, Heliyon

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Decision on submission HELIYON-D-21-11234 to Heliyon

2 messages

Heliyon <em@editorialmanager.com> Reply-To: Heliyon <info@heliyon.com> To: Sri - Raharjo <sraharjo@ugm.ac.id> Tue, Dec 28, 2021 at 3:09 AM

Manuscript. Number.: HELIYON-D-21-11234

Title: Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary

mixtures of palm stearin and palm olein

Journal: Heliyon

Dear Dr. Raharjo,

We have now received all of the reviewers' comments on your recent submission to Heliyon.

The reviewers have advised that your manuscript should become suitable for publication in our journal after appropriate revisions.

If you are able to address the reviewers' comments, which you can find below, I would like to invite you to revise and resubmit your manuscript. We ask that you respond to each reviewer comment by either outlining how the criticism was addressed in the revised manuscript or by providing a rebuttal to the criticism. This should be carried out in a point-by-point fashion as illustrated here: https://www.cell.com/heliyon/guide-for-authors#Revisions

To allow the editors and reviewers to easily assess your revised manuscript, we also ask that you upload a version of your manuscript highlighting any revisions made. You may wish to use Microsoft Word's Track Changes tool or, for LaTeX files, the latexdiff Perl script (https://ctan.org/pkg/latexdiff).

To submit your revised manuscript, please log in as an author at https://www.editorialmanager.com/heliyon/, and navigate to the "Submissions Needing Revision" folder under the Author Main Menu. Your revision due date is Jan 26, 2022.

We understand that the COVID-19 pandemic may well be causing disruption for you and your colleagues. If that is the case for you and it has an impact on your ability to make revisions to address the concerns that came up in the review process, please reach out to us.

I look forward to receiving your revised manuscript.

Kind regards,

Dimitrios Lamprou Section_Editor Heliyon

Editor and Reviewer comments:

Reviewer 1:

The manuscript described the preparation and characterization of β-carotene (βC) loaded nanostructured lipid carrier (NLC). After preparation, the NLC was tested for in vitro release, bioaccessibility, and antioxidant activity. The authors demonstrated the increased release and antioxidant activity of βC . However, the NLC was not well characterized. There were other issues with the methods and results of this study. Please consider the following comments to improve the manuscript.

Introduction

- 1. There was no introduction and relevant information on βC. The current Introduction section was not well structured. The authors can restructure it as follows: (i) lipid-based delivery system, (ii) NLC, (iii) βC, and (iv) brief summary of the study, primary aim, and expected outcomes.
- 2. When introducing β C, the authors should summarize previous nano drug delivery systems of β C, particularly the SLN and NLC systems. What were the limitations of those studies that led to this study? Methods:

- 3. Section 2.2. Preparation of β-carotene loaded Nanostructured Lipid Carriers; please clarify "βC 0.025%". The authors should include detail of the method, including (i) amount of PS, PO, βC, (ii) volume of the aqueous phase, (iii), Tween 80 concentration.
- 4. To verify the successful production of NLC, various physicochemical tests are required, including (i) particle size and polydispersity index, zeta potential, (ii) Entrapment efficacy of βC and drug loading in the NLC, (iii) DSC, XRD, FTIR, and (iv) SEM and/ or TEM. However, after preparation, the NLC in this study was not tested by these tests. 5. For in vitro release studies (sections 2.3 and 2.4): it was unclear how to separate the βC released and NLC before measuring the concentration of βC. To compare different formulations (data in figures 1 and 2), the starting amount of BC should be the same. The in vitro release in simulated gastric and intestinal fluids should be presented by a release curve; in other words, the authors should collect release samples at different timepoints (e.g., 30, 60, 90, 120 min) to show the trend of βC from NLC. If there was a burst release, it could be due to the un-entrapped βC. Results: All the Figures should be revised as follows:
- 6. Figure 1: It is better to use different patterns to distinguish Initial, Mouth, Stomach, and Intestine, In the current figure, the authors used 4 different levels of black to distinguish them; however, the differences were unclear. 7. Figures 2, 4, and 5: the same issue as mentioned above.
- 8. Figure 3: please explain the letter a, b, c, ... in the figure.
- 9. In the figures, different formulations of βC were presented, including βC emulsion, βC in Tween 80 (0.01%), βC in Phosphate Buffered Saline pH 7 solution, βC (alone). The authors should describe how these formulations were prepared, what was βC (alone) (was it βC suspension in water?), and what was the concentration of βC in Phosphate Buffered Saline pH 7 solution (was it possible to prepare a solution?).
- 10. The authors mentioned a statistical test with ANOVA and a post-hoc Duncan test with a confidence level of 95% (section 2.7). However, there was no result of this test in the main text and figures. Data in Figures 1-5 should be compared using the statistical test.
- 11. Figure 5 was not mentioned in the main text. Interpretation:
- 12. Statistical results should be mentioned.

Other comments:

13. Table 1 should be moved to the supplementary material. Its information was obtained from a previous study to prepare different simulated juices. There was no new information in this table.

Reviewer 2:

The present manuscript (HELIYON-D-21-11234) titled "Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary mixtures of palm stearin and palm olein" aimed to develop NLC of palm stearin and palm oil and evaluate its bioaccessibility and antioxidant activity. The concept behind the study was good and the results proved their claim. However, following comments should be addressed in the revised version of this manuscript.

Comment 1. First of all, the authors should explain the role of β-carotene as antioxidant in the introduction section and how NLC improves its activity?

Comment 2. Why the authors have not measured the particles size and particles size distribution, zeta potential as well as entrapment efficiency.

Comment 3. Authors should perform the stability of the developed NLC in the gastrointestinal media. Following paper can help to perform this study.

https://iopscience.iop.org/article/10.1088/1361-6528/ac1098

Comment 4. Language is poor. Authors should improve the quality of language to improve scientific value of this manuscript.

Data in Brief (optional):

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Sri Raharjo <sraharjo@ugm.ac.id>

To: miftakhur rohmah <miftakhurrohmah81@gmail.com>

Sat, Jan 1, 2022 at 10:53 AM

Bu Miftakh

Berikut ini komentar/koreksi dari reviewer naskah yang disubmit ke Heliyon.

Tolong direspon sesuai komentarnya masing-masing reviewer.

Kalau ada yang sulit nanti bisa kita diskusikan dulu.

Terima kasih.

Sri Rahario

[Quoted text hidden]



Your revision is due

5 messages

Heliyon <em@editorialmanager.com> Reply-To: Heliyon <info@heliyon.com> To: Sri - Raharjo <sraharjo@ugm.ac.id> Wed, Jan 19, 2022 at 12:38 PM

Ref.: Ms. No. HELIYON-D-21-11234

Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary mixtures of palm stearin and palm olein

Heliyon

Dear Dr. Raharjo,

Thank you for submitting your manuscript "Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary mixtures of palm stearin and palm olein", which has now been sent to you for revision, to Heliyon. This is a reminder to complete your revision.

As this revision is now due within 7 days, we wanted to take the opportunity to check on your progress with the revision. If you think you will need additional time to complete your revision, please send us a quick message letting us know your general timeline. It is absolutely fine if you need additional time, but having an idea of when to expect your revision would be helpful.

To submit your revision, please log into Editorial Manager at: https://www.editorialmanager.com/HELIYON/.

We look forward to hearing from you, and thank you again for supporting Helivon, an open access journal that is part of the Cell Press family.

Kind regards,

Heliyon

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Sri Raharjo <sraharjo@ugm.ac.id>

To: miftakhur rohmah <miftakhurrohmah81@gmail.com>

Thu, Jan 20, 2022 at 8:58 AM

Bu Miftakh

Tolong revisi manuscriptnya dapat diselesaikan paling lambat minggu 23 Januari ya, supaya saya bisa unggah ke Heliyon seninnya. Ini sudah diingatkan oleh Heliyon.

Terima kasih atas perhatiannya.

Sri Raharjo [Quoted text hidden]

Khonza humaira anantha putri <miftakhurrohmah81@gmail.com> To: Sri Raharjo <sraharjo@ugm.ac.id>, antonrahmadi@gmail.com

Sat. Jan 22, 2022 at 9:54 PM

Assalamualaikum Bapak,

Terlampir revisi manuscript Heliyon, saya mengerjakan revisi dibantu Pak Anton Rahmadi. Mohon bantuannya untuk di review.

terima kasih

[Quoted text hidden]

2 attachments



Table of Responses in the Revised Manuscript heliyon.docx



Manuscript-NLC-Carotene-Postdoc-SR-Dec 2021_R1.docx 1649K

Khonza humaira anantha putri <miftakhurrohmah81@gmail.com> To: Sri Raharjo <sraharjo@ugm.ac.id>, antonrahmadi@gmail.com

Sat, Jan 22, 2022 at 9:57 PM

Terlampir Raw data manuscript heliyon

[Quoted text hidden]



Raw Data -Heliyon - NLC - 2022.xlsx

Sri Raharjo <sraharjo@ugm.ac.id>

To: Khonza humaira anantha putri <miftakhurrohmah81@gmail.com>

Sat, Jan 22, 2022 at 10:17 PM

Terima kasih, akan saya lanjuti,

SR

[Quoted text hidden]



Decision on submission HELIYON-D-21-11234R1 to Heliyon

5 messages

Heliyon <em@editorialmanager.com> Reply-To: Heliyon <info@heliyon.com> To: Sri - Raharjo <sraharjo@ugm.ac.id> Sun, Jan 30, 2022 at 3:27 PM

Ms. No.: HELIYON-D-21-11234R1

Title: Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary

mixtures of palm stearin and palm olein

Journal: Heliyon

Dear Dr. Raharjo,

Thank you for submitting your manuscript to Heliyon.

We have now received all of the editor and reviewer comments on your recent submission to Heliyon. Your paper will become acceptable for publication after implementation of minor formatting and/or administrative changes outlined below. To avoid unnecessary delays in the publication of your manuscript, please do not make any other additional changes during this revision.

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Kind regards,

Eden Qi **Editorial Assistant** Helivon

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Editor and Reviewer comments:

Comments from Editorial Office:

- (1) Please remove "This research was supported by Postdoctoral Grant of Universitas Gadjah Mada (Contract Number:6144/UN1.P.III/DIT-LIT/PT/2021)." from your Acknowledgements, as this information is handled separately.
- (2) Heliyon is an online publication only, so the use of black and white images is discouraged. If you have a colour version of all your figures, we would encourage you to use this one instead when resubmitting.
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Sri Raharjo <sraharjo@ugm.ac.id>

To: miftakhur rohmah <miftakhurrohmah81@gmail.com>

Bu Miftakh

Ini sudah ada respon dari Editor Heliyon. Tinggal ada sedikit koreksi format saja.

Tolong disiapkan revisinya untuk butir 2 dan 3.

Yang butir no.1 tinggal dihapus saja di manuscript.

Gunakan file terakhir yg dikirimkan ke saya untuk dasar revisinya.

Berikan nama file yang serupa hanya diberi akhiran yang beda, misalR2.

Saya tunggu koreksinya Jumat ya, karena hanya diberi waktu oleh Heliyon revisinya deadline 4 Feb 22.

Terima kasih

SR

[Quoted text hidden]

Miftakhur Rohmah <miftakhurrohmah81@gmail.com>

To: Sri Raharjo <sraharjo@ugm.ac.id>

Wed, Feb 2, 2022 at 1:19 PM

Wed, Feb 2, 2022 at 12:50 PM

baik pak, tks

[Quoted text hidden]

Miftakhur Rohmah <miftakhurrohmah81@gmail.com>

To: Sri Raharjo <sraharjo@ugm.ac.id>

Thu, Feb 3, 2022 at 4:15 PM

Assalamualaikum pak.

Berikut terlampir revisi 2 manuscript Heliyon.

Mohon Koreksinya

Terima kasih

On Wed, Feb 2, 2022 at 1:50 PM Sri Raharjo <sraharjo@ugm.ac.id> wrote: [Quoted text hidden]

Manuscript-NLC-Carotene-Postdoc-SR-Dec 2021 R2.docx 1401K

Miftakhur Rohmah <miftakhurrohmah81@gmail.com> To: Sri Raharjo <sraharjo@ugm.ac.id>

Thu, Feb 3, 2022 at 4:54 PM

lampiran revisi data exel

[Quoted text hidden]



Raw Data -Heliyon - NLC - 2022 (1).xlsx



Decision on submission to Heliyon

1 message

Heliyon <em@editorialmanager.com> Reply-To: Heliyon <info@heliyon.com> To: Sri - Raharjo <sraharjo@ugm.ac.id> Fri, Feb 4, 2022 at 10:09 PM

Manuscript Number: HELIYON-D-21-11234R2

Title: Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from binary

mixtures of palm stearin and palm olein

Journal: Heliyon

Dear Dr. Raharjo,

Thank you for submitting your manuscript to Heliyon.

I am pleased to inform you that your manuscript has been accepted for publication.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

We appreciate and value your contribution to Heliyon. We regularly invite authors of recently published manuscript to participate in the peer review process. If you were not already part of the journal's reviewer pool, you have now been added to it. We look forward to your continued participation in our journal, and we hope you will consider us again for future submissions.

Kind regards. Eden Qi **Editorial Assistant** Helivon

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1 message

r.pareenargunam@elsevier.com <r.pareenargunam@elsevier.com>

Mon, Feb 7, 2022 at 1:11 PM

To: sraharjo@ugm.ac.id

Our reference: HLY e08913

Article reference: HLY_HELIYON-D-21-11234

Article title: Bioaccessibility and antioxidant activity of β-carotene loaded nanostructured lipid carrier (NLC) from

binary mixtures of palm stearin and palm olein

To be published in: Heliyon

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Dr. Sri Raharjo Universitas Gadjah Mada Department of Food and Agricultural Product Technology, Faculty of Agricultural Technology, 55281 Indonesia

Phone: not available Fax: not available

E-mail: sraharjo@ugm.ac.id

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