
Re: Paper Submission

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To: isumantri@ulm.ac.id

Sat, Jul 17, 2021 at 6:42 PM

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First, we would like to congratulate the authors for their work. The authors present an interesting topic.

Secondly, we would like to make some comments on the reviews of the paper:

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2. Please retain only the most recent references, preferably those published in 2016-2021.
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If you have any questions, please do not hesitate to contact us via editorial-office@jonuns.com.

Have a nice day.

Take care of yourself!

Yours sincerely,

Editor-in-Chief

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----- Original Message -----

Subject: Paper Submission

Date: 2021-05-23 11:17

From: Journal of Hunan University Natural Sciences <office@jonuns.com>

To: editorial-office@jonuns.com

Title of your paper: The Effect of Poultry Excreta on Water Quality and Daphnia magna Straus, 1820 Production in a Medium Enriched with Chlorella Powder

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Keywords: D. magna, Daphnia production, Culture medium, Poultry excreta, Water quality

Abstract: This research aims to investigate the effects of different concentrations of poultry excreta incorporated in a culture enriched with chlorella powder for biomass production of Daphnia magna Straus, 1820. The experiment was conducted by adding poultry excreta at four concentrations (0, 2, 4 and 6 g.L⁻¹) to the chlorella powder culture medium. The culture was maintained for 15 days and samples were collected on day 0, 5, 10 and 15 to analyse the D. magna population, water pH, ammonia, nitrate and dissolved oxygen concentrations. Furthermore, statistical evaluation was conducted using one way analysis of variance in a completely randomised research design, while contrast orthogonal test was conducted to determine the trend line effects of poultry excreta levels. Results showed increasing poultry excreta concentration reduced the quality of water ($P < 0.01$) as indicated by water pH, ammonia, nitrate and dissolved oxygen concentrations. Also, a longer duration of experiment lead to the subsequent improvement in the qualitative parameters evaluated. Similarly, the population of D. magna was also very significantly affected ($P < 0.01$) by both factors, hence the optimum water quality and the highest population produced on day 15, using 2 g.L⁻¹ of poultry excreta.

2 attachments



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