

Review of: "Impact of Starch Concentration on Chlorella-k-Carrageenan Gel Formation Mechanism"

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Potential competing interests: No potential competing interests to declare.

The manuscript *Impact of Starch Concentration on Chlorella-k-Carrageenan Gel Formation Mechanisms* submitted to Qeios describes the gel formation based on microalgae, starch, and κ -carrageenan.

The following points should be addressed before publication.

- Sufficient details of materials and techniques used should be described to allow others to replicate and build on the published results, i.e.,
- The lack of specification for commercial samples of starch and κ -carrageenan, i.e., source and molecular weight
- There is a need for more description of the process for obtaining the Arrhenius plot. Please add.
- Is the phrase "Arrhenius measurement" correct in the captions to the drawings?
- No description of energy determination
- Error range or the determination coefficient should be included. Statistical analysis should be emphasized to support the results, discussion, and conclusion. Please correct.
- How is the reproducibility of the used procedures? The repeating of the preparation experiments and the characterization and evaluation of the results should evidence this.
- How many samples of one type (or the number of experiment replicates) were used in the studies? Lack of information about the number of replicates of the experiment.
- Please check the text: some typing/format errors are found.