

Interactive comment on “Calcite and vaterite biosynthesis by nitrate dissimilating bacteria in carbonatogenesis process under aerobic and anaerobic conditions” by Marwa Eltarahony et al.

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Response to peer-reviewers Firstly, we appreciate the reviewers' feedbacks and their careful reading of our manuscript, interest in our study and thoughtful comments that greatly improve the quality of the paper. Secondly, we did our best to respond to the points raised. The Referees have brought up some constructive suggestions and we appreciate the opportunity to clarify our research objectives and results. As indicated below, we have checked all the general and specific comments pointed out and have made the necessary changes accordingly to their indications.

Reviewer #2: The topic of the article is in itself aligned with the scope of BG.

C1

C1)-Unfortunately, the image quality (resolution) of the figures is so poor that axes and legends are illegible, in particular for Figures 3-5. Therefore, it is not possible to judge whether the experimental data are of sufficient quality. At a first glance, the text of this manuscript is poorly written and confusing (see anonymous reviewer #1 for more details). C2)-I strongly suggest the authors to consider the more detailed suggestions of reviewer #1 during a major overhaul of the manuscript contents. Furthermore, C3)-higher resolution images are needed for all figures and a thorough revision by a native English speaker is necessary before consideration and discussion of this manuscript is feasible.

A1- Thanks for your deep notice. We fixed and adjusted all figures to be readable and informative.

A2- As mentioned previously, we followed your respective opinion and also the opinion of respective Reviewer # 1 and # 3. We revised the manuscript thoroughly and additionally, English native speaker checked English quality of revised manuscript.

A3- We followed your suggestion in revised form of manuscript

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C2