

Answer reviewer comments for manuscript

[egusphere-2025-5010]

Comments from the reviewers are marked as “**rev {reviewer no./comment no.}**” in italicized font. The answers of the authors are indented and follow immediately after the reviewer comments. General statements made by the reviewers are not reproduced here. **highlighted** and **strikethrough** text shows changes in the manuscript. Line numbers (L) mentioned in our replies correspond to the original single-column (unrevised) version of the manuscript.

Reviewer 1

Specific comments

rev 2/1 *Line 122 what is PIC?*

PIC refers to a protease inhibitor cocktail, which is defined at its first mention in Line 113.

rev 2/2 *Line 425 issues with sample foaming during injection into analytic systems. This is not really a comment on the manuscript, just a suggestion for subsequent analyses: try adding antifoam A to the acid instead of using centrifugal filters; there will be less chance of introducing atmospheric CO₂.*

We thank the reviewer for this helpful suggestion. We will test the addition of Antifoam A to the acid in future analyses. If successful, this approach would eliminate the centrifugation step, thereby saving time and reducing the potential for atmospheric CO₂ contamination.