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We wish to submit an original research article entitled “A comparison of demineralization methods for goldstripe sardinella (*Sardinella gibbosa*) scales: Hydrochloric acid and high-pressure carbon dioxide” for consideration by Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology. **We declare that this manuscript is original, has not been published before and is not currently being considered for publication elsewhere.**

This study investigates two demineralization methods for goldstripe sardine scales: the conventional strong acid treatment and the innovative high-pressure carbon dioxide process.

The traditional approach involves establishing correlations between acid concentration, treatment time, and demineralization efficiency. While the process itself is not novel, our utilization of goldstripe sardine scales, prevalent in Southeast Asia and a primary raw material for Thai sardine products, distinguishes our research. The demineralized scales, when further processed, hold potential for gelatin and collagen production, contributing to waste reduction and adding value to local sardines.

Through mathematical modeling, we have clarified the relationship of process parameters and demineralization efficacy, showcasing the feasibility of achieving effective strong acid demineralization of fish scales in under an hour. This finding provides valuable information for future research of a similar nature.

Our exploration of high-pressure carbon dioxide treatment represents pioneering work in assessing its feasibility for demineralization of fish scales. Despite yielding lower efficiency compared to the traditional method, this environmentally friendly alternative shows promise as a novel approach which should be investigated further.

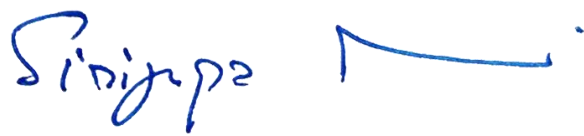
We believe that the findings will be of interest to the readers of your journal; and be beneficial to researchers and manufacturers who are interested in process optimization of strong acid demineralization, exploring green alternative process, and fish waste utilization.

**We also would like to confirm that there is no conflict of interest associated with this publication and there has been no significant financial support for this work that could have influenced its outcome. The manuscript has been read and approved by all named authors. All authors agreed on its submission to this journal.**

We hope you find our manuscript suitable for publication and look forward to hearing from you. Please address all correspondence concerning this manuscript to me at [siriyupa.net@mahidol.ac.th](mailto:siriyupa.net@mahidol.ac.th).

Thank you for your consideration of this manuscript.

Sincerely,



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