

Review Form 1.7

Journal Name:	Biotechnology Journal International
Manuscript Number:	Ms_BJI_107454
Title of the Manuscript:	Precipitation Using Organic Solvents for Purifying Lipase from <i>Preussia africana</i>
Type of the Article	Original Research Article

Review Form 1.7

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript should address the following points:</p> <ol style="list-style-type: none"> Limited enzyme characterization; lacks detailed information on substrate specificity and kinetic parameters. Need to explain this in the discussion section. Insufficient discussion on potential industrial or biotechnological applications of the purified lipase. Need to be explained in the main text. Absence of key data on fermentation conditions, culture medium composition, and initial lipase production levels, which are vital for process replication and optimization. Should be discussed in the main text. Insufficiently provided the references in the main text. The manuscript requires citations for the appropriate references. <p><i>After reference numbers 2, and 3, need to add the following reference:</i> <i>Bajaj S, Fuloria S, Subramaniyan V, Meenakshi DU, Wakode S, Kaur A, Bansal H, Manchanda S, Kumar S, Fuloria NK. Chemical characterization and anti-inflammatory activity of phytoconstituents from Swertia alata. Plants. 2021 May 31;10(6):1109.</i></p> <p><i>After reference number 4 need to add the following reference:</i></p> <p>Vetriselvan S, Middha A. Potential action of Andrographis paniculata against chronic ethanol consumption induced liver toxicity in experimental rats. European Journal of Medicinal Plants. 2016 Jan 10;12(2):1-9.</p> <p>Rajan N, Debnath S, Perveen K, Khan F, Pandey B, Srivastava A, Khanam MN, Subramaniyan V, Kumarasamy V, Paul PJ, Lal M. Optimizing hybrid vigor: a comprehensive analysis of genetic distance and heterosis in eggplant landraces. Frontiers in Plant Science. 2023;14.</p> <p><i>After reference number 5, need to add the following reference:</i></p> <p>Venkateshan S, Subramaniyan V, Chinnasamy V, Chandiran S. Anti-oxidant and anti-hyperlipidemic activity of Hemidesmus indicus in rats fed with high-fat diet. Avicenna journal of phytomedicine. 2016 Sep;6(5):516.</p> <p>Chinnasamy V, Subramaniyan V, Chandiran S, Kayarohanam S, Kanniyam DC, Velaga VS, Muhammad S. Antiarthritic Activity of Achyranthes Aspera on Formaldehyde-Induced Arthritis in Rats. Open access Macedonian journal of medical sciences. 2019 Sep 9;7(17):2709.</p> <p><i>After reference number 7, need to add the following reference:</i></p> <p>Fuloria S, Subramaniyan V, Karupiah S, Kumari U, Sathasivam K, Meenakshi DU, Wu YS, Guad RM, Udupa K, Fuloria NK. A comprehensive review on source, types, effects, nanotechnology, detection, and therapeutic management of reactive carbonyl species associated with various chronic diseases. Antioxidants. 2020 Nov 2;9(11):1075.</p> <p>Kayarohanam S, Subramaniyan V, Janakiraman AK, Kumar SM. Antioxidant, antidiabetic, and antihyperlipidemic activities of dolichandrone atrovirens in albino Wistar rats. Research Journal of Pharmacy and Technology. 2019 Jul 1;12(7):3511-6.</p>	

Review Form 1.7

	<p><i>After reference number 8, need to add the following reference:</i></p> <p>Subramaniyan V, Shaik S, Bag A, Manavalan G, Chandiran S. Potential action of Rumex vesicarius (L.) against potassium dichromate and gentamicin induced nephrotoxicity in experimental rats. Pakistan journal of pharmaceutical sciences. 2018 Mar 1;2:509-16.</p> <p>Malviya R, Fuloria S, Verma S, Subramaniyan V, Sathasivam KV, Kumarasamy V, Kumar DH, Vellasamy S, Meenakshi DU, Yadav S, Sharma A. Commercial utilities and future perspective of nanomedicines. PeerJ. 2021 Nov 19;9:e12392.</p> <p><i>After reference number 11, need to add the following reference:</i></p> <p>Subramaniyan V. Therapeutic importance of castor seed oil. In Nuts and Seeds in Health and Disease Prevention 2020 Jan 1 (pp. 485-495). Academic Press.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Nil	
<p>Optional/General comments</p>	<ol style="list-style-type: none"> Efficient lipase precipitation from <i>Preussia africana</i> using acetone and isopropanol while preserving catalytic activity. Robust purification method utilizing acetone at 10°C, achieving a purification factor of 1.89 ± 0.01 with high activity recovery. 	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

Reviewer Details:

Name:	Vetriselvan Subramaniyan
Department, University & Country	Monash University, Malaysia