

International Journal of Current Microbiology and Applied Sciences (IJCMAS)

ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online)

An International, Monthly, Online, Free Access, Peer Reviewed,
Indexed, fast track Scientific Research Journal

Certificate of Publication

This is to certify that the following article reviewed by editorial board and published in International Journal of Current Microbiology and Applied Sciences (IJCMAS) ISSN: 2319-7692 (Print) ISSN 2319-7706 (Online).

Int.J.Curr.Microbiol.App.Sci.2025.14.(12):43-60

<https://doi.org/10.20546/ijcmas.2025.1412.005>

Exploring Biological Laboratory Approach on Production, Characterization and Environmental Applications of Biosurfactant Produced by *Bacillus spizizenii* (S1)

Sona Shanmugasundarm¹, Dharanisha Vaithilingam¹, Gopikrishnan Venugopal² and [Ayyasamy Pudukkadu Munusamy](#)^{1*}

¹Department of Microbiology, Periyar University, Salem – 636011, India ²Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology, Chennai - 600119, India.



Dr. M. Prakash
Editor-in-chief

International Journal of Current Microbiology and Applied Sciences

www.ijcmas.com

www.excellentpublishers.com



© International Journal of Current Microbiology and Applied Sciences (IJCMAS)

www.excellentpublishers.com www.ijcmas.com