



The effect of Data Mining on Biofuel researches to predict the optimal answers: finding the suitable light intensity and ferric ion concentration for best influence on lipid characteristics and fatty acid profile of fresh

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Abstract

Herbal based extracts have immense applications in the fields of medicine, therapeutics and nutritional value as excellent nutraceutical and pharmaceutical compounds. From ancient times, Elettaria cardamomum seeds have been proposed the most cost effective and safe herbal nutraceutical sources to prepare silver containing herbal suspensions to treat many diseases like cold, cough, flu, stomach infections and skin allergies. It has been observed that green synthesis of Elettaria cardamomum seeds based herbal suspensions are found to be safe, eco-friendly and cost effective as compared to any kind of chemical preparations which have noticeable toxic and hazardous effects in treated patients because of use of toxic and allergic organic and organic solvents and release of various by-products during their preparations. So in our study, we focused on use of green method to prepare silver containing Elettaria cardamomum herbal suspensions to minimize their respective deleterious effects as cost-effective and eco-friendly approach to synthesise the safe herbal nutraceutical suspensions having improved antioxidant properties. UV-Vis spectroscopic analysis was used to confirm

the presence of silver metal in prepared Elettaria cardamomum herbal nutraceutical suspensions showing sharp peak in the range of 250-400nm.

Biography

Dr Kirti Rani is M.Sc Biochemistry (2000) and Ph.D. Biochemistry (2004). She has also worked for Post Graduate Institute of Medical Education & Research, Chandigarh, INDIA (2004-2007). Now, she is working as Associate Professor in Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida, INDIA (2008-till date). She has more than 100 international/ national publications including research articles/ 10 books/5 book chapters/ one granted patent/ 11 filed national patents in various reputed and peer reviewed journals. She is also member, reviewer and editor of various recognized international/ national scientific societies and journals. She has been awarded for various National awards like “Excellence in Teaching” in 2017; “Teaching and research Excellence Award” in 2017 and “Dr A.P.J. Abdul Kalam Life Time Achievement National award” in 2018. She also awarded Certificate of Appreciation for being distinguished part of “Technical and Scientific Committee” for organizing various International Training programs for African Candidates/Bureaucrats” organized by Amity University Uttar Pradesh, Noida in-association with Biotech Consortium India Limited [BCIL), New Delhi and Sponsored by Ministry of External Affairs, Govt. of India.



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