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Elemental Identification and Estimation of Natural Pigments by ICP-AVIO Technique

Shrikrishna M. Nandanwadkar*, V.S. Mastiholimath and Pramod H.J
KLE College of Pharmacy, India

The natural pigments obtained from plants are nowadays are of significant interest as nutritional supplements and dietary antioxidants reason they being bioactive components of food. There is also strong and clear evidence on natural pigments like Anthocyanins, Carotenoids, Betanins, Annatto and Paprika, etc. as nutritional supplements and crucial antioxidants, as their presence in the diet reduces the risk of cardiovascular diseases anti-carcinogenic, anti-bacterial and anti-tumor promoting effects. Even though the biological activities like radical scavenging property and nutrition benefits cannot be overseen, the safety and concern always remain as in regards to the elemental composition of natural pigments which may prove to be toxic over the years on frequent and regular consumption of the same. In the present study an effort has been made to develop and validate the optical spectroscopic method for identification and estimation of elements in the form of heavy metals if any, thereby providing a reliable and rapid analytical tool for analysis of herbal and natural pigments establishing evidence on its toxicity profile.

Biography:

Shrikrishna M. Nandanwadkar currently, pursuing his doctoral study in Pharmaceutical Quality Assurance at KLE Academy of Higher Education and Research, Belagavi, India. He is an active member of the Society of Ethnopharmacology (SFE) and Society of Pharmacognosy and had been in the field of Chromatography for the past 5 years and has hands-on experience on related sophisticated instruments. He had presented his research work at various National and International conferences like Advances in drug discovery and development at Manipal University, CSIR-NBRI and MFU University, Thailand and had presented his research work in form of scientific paper presentation.