

Comparative Studies of Millets through Atomic Absorption Spectrometer & SEM & EDXRF

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Abstract: *The essential multielemental analysis was carried out using ATOMIC ABSORPTION SPECTROMETER & SEM-EDX of six millets medicinal plants. To understand the elemental analysis of Millets (Medicinal plant) collected from selected regions of North & South Karnataka region, viz., Belagavi & Mysore Districts. In the present investigation, Millets selected. The analysis of the samples was thorough nano-micro photograph obtained by using ATOMIC ABSORPTION SPECTROMETER & SEM & EDXRF and specific weight percent of elemental concentration is analyzed. The elemental concentrations such as C, O, Mg, P, K, Mn, Fe, Cu, Zn, Hg, Pb were estimated in all the collected MILLETS and found to be within the Permissible Limit values of WHO. SEM morphology indicates that fine plane irregularly shaped particles, with size an average diameter 200 nm–1 μ m, are observed in the analyzed Millets.*

Keywords: Elements, Field Atomic Absorption Spectrometer A Scanning electron microscope-energy dispersive X-ray spectroscopy method, Medicinal plants, North Karnataka, Permissible limits, World Health Organization

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