

Evaluation Of Elemental Content of Zizyphus Jujuba(Mill.) By X-Ray Fluorescence Spectroscopy (XRF)

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ABSTRACT:

X-ray fluorescence spectroscopy technique is the most powerful and multi elemental analysis technique. This technique has been applied for multi elements present in dried samples of fruit of ZIZYPHUS JUJUBA. In this analysis the sample of fruit of ZIZYPHUS JUJUBA is found to possess chromium as a heavy metal in the proportion of about 0.06 %. This analysis also indicates presence of 7 micro elements and 4 macro elements. The different elements have different functions in the plant. Copper metal is useful as a component of enzymes, Ferrous metal essential for chlorophyll synthesis in photosynthesis reaction and Manganese metal as important in chloroplast production.

Keywords : ZIZYPHUS JUJUBA's fruit, XRF, Micro and Macro Elements, Heavy Metal.