

Medicinal plants contain mineral elements that are vital therapeutically. In this study, concentration levels of Ca, Cr and Cu in *Tagetes minuta*, *Senna didymobotrya*, *Bauhinia torenutosa*, *Prunus africana*, *Eucalyptus saligna*, *Bidens pilosa*, *Aloe secundiflora*, *Caesalpinia volkensii*, *Anthocleista grandiflora* and *Albizia leonardus* were determined. Leaves and stem barks of *T. minuta* had the highest mean levels of Cu (0.25 ± 0.01 mg/Kg), while the least was in stem bark of *S. didymobotrya* at levels of 0.01 ± 0.00 mg/Kg. Stem barks of *S. didymobotrya* had the highest mean levels of Cr (1.60 ± 0.01 µg/Kg). Leaves of *S. didymobotrya* had the lowest mean levels of Cr (0.49 ± 0.02 µg/Kg). Levels of Ca in these medicinal plants ranged from 0.21-78.00 mg/Kg. Concentration levels of minerals in these medicinal plants may be responsible for their medicinal properties.