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Detection of heavy metals from compound herbal drugs

Syed Kashif Shahid
University of Gujrat, Pakistan

Present study was conducted to determine the concentration of heavy metals from compound herbal drugs such as Dawa-ul-Misk Moatadil Jawahir Dar (D'Misk), Laboob-e-Kabeer (L'Kabeer), Majoon Dabeed-ul-Ward (D'Ward) and Majoon Flasfa (M' Falasfa) manufactured by national herbal products companies Ajmal Dawa Khana(A.D.K), Hamdard Laboratories (H.L) and Qarshi Laboratories (QL). Heavy metals such as Chromium (Cr), Cobalt (Co), Cupper (Cu), Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) and Zinc (Zn) were determined by using Atomic Absorption Spectrophotometer. The results showed that with regards to concentration of Co, Cu, Mn, Fe and Zn all the herbal drugs are safe to use. Whereas Cr in D'Misk manufactured by Q.L was higher as compared to normal level which might cause toxic effects. Lead was also found in higher concentration in all the herbal products except, in L'Kabeer of H.L, D'Ward and M'Flasfa manufactured by A.D.K. Nickel concentration in D'Misk manufactured by Q.L and M'Flasfa manufactured by H.L was also high with regard to normal recommended limits. The literature showed that concentration of heavy metals in different plants is always unpredictable and greatly varied. These variations might be due to contaminated soil, ill storage conditions of the raw material as well as contamination during any step of production. As determination of heavy metals from compound herbal drugs is a preliminary study. Therefore a detailed study is proposed to detect heavy metals from all the market available compound herbal drugs before use.

Biography

Syed Kashif Shahid has completed his Bachelor, Bachelor of Eastern Medicine & Surgery (with Distinction) and M Phil in Phytomedicine from The Islamia University of Bahawalpur, Punjab, Pakistan. He is serving as Assistant Director at University of Gujrat, Punjab, Pakistan. He has published many research articles in renowned international journals. He is the author/co-author/editor of 12 books. He also supervised many research projects.

kashif.shahid@uog.edu.pk