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Comparative chemical analysis and safety study of some kushtajat (calcined products) used in Unani system of medicine

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KushtajAt (Calx) made of metals and minerals have been in use for therapeutic purpose in Unani System of Medicine since centuries. The preparation method and treatment purpose of calcined products in the system are different from Ayurveda. Three Kushtajat containing metal ions eg. Au, Ag, Cu are selected for this study. For preparation of Kushtajat samples of raw materials were procured from local market and prepared by modern and conventional methods were subjected to comparative physicochemical and gravimetric analysis to determine the metallic content and to detect the impurities. Thereafter the metals were subjected to calcination process in accordance with the procedure mentioned in National Unani Formulary for preparation of Kushta. The heat was provided by traditional furnace (Potable tandur) and by Muffle Furnace. In process heat quantification is done with the help of Digital Pyrometer. The purity of the finished product (calcined) was assessed by Thin Layer Chromatography and organoleptic characterization carried out according to the principles of Unani Medicine. They were also analyzed by Scanning Electron Microscopy, (SEM) and Transmission Electron Microscopy (TEM) ICPAES, AAS, EDAX ray methods. For Safety evaluation of Kushta LD50 was determined in animal experimentation.

Biography

Tajuddin has completed his MD (Unani Pharmacology) in 1983 from Aligarh Muslim University Aligarh India. He has been the Dean Faculty of Unani Medicine, AMU, and presently is the Chairman Dept. of Saidla (Pharmacy). He has published more than 50 research papers in reputed journals and was the founder EDITER - IN - CHIEF of International Journal Unani Medicus. He is also a member of National Pharmacoepea Committee.

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