



International Conference & Exhibition Bioequivalence and Bioavailability 2010

doi:10.4172/0975-0851.1000061

TITLE

COMPOSITE ION EXCHANGE MATERIALS AND THEIR APPLICATIONS TO REMOVE TOXIC METAL IONS

Dr. Mu. Naushad

SRM University, NCR Campus,
Modinagar, Ghaziabad, India.

It is well-accepted fact that the progress of mankind today is directly or indirectly dependent on advanced technology materials (high performance materials) that perform better and open new dimensions in research and development. Among the major dependent materials in recent years are composite materials. In fact, composites are now one of the most important classes of engineered materials, as they offer several outstanding properties as compared to conventional materials. These materials have found increasingly wider utilities in the general areas of toxic metal ion separations, chemical sensors, chromatography, fabrication of selective materials, and electrical and optical applications. The materials that are used as ion exchangers have attained an appreciable status in current research because they have become a part and parcel of a number of laboratories and industrial units in one way or other. The disciplines like analytical chemistry, electro-analytical, medical, agriculture, potable water, power generation, textile and environmental have been using these materials which belong to organic as well inorganic origin.