

Neutron Activation Analysis and Related Analytical Techniques in the Assessment of Nanoparticle Uptake in Organisms

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Nanomaterials, including metal nanoparticles, are widely used today in industry as well as ordinary life. Despite the rapid development of nanotechnology, information about the exposure of humans and the environment to nanoparticles is very scanty. To understand the effect of metal nanoparticles on living organisms it is important to estimate the amount of nanoparticles accumulated by living organisms and to depict their localization. Present work focuses on application of neutron activation analysis and electron microscopy techniques in the investigation of metal nanoparticles uptake by living organisms.