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Determination of ⁵⁹Ni in radioactive wastes

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The aim of this study was suggestion and examination of method for radioanalytical determination of ⁵⁹Ni in radioactive wastes using low energy photon spectrometry (LEPS). New composite material PAN-DMG, containing chelating agent dimethylglyoxime (DMG) immobilized in porous matrix of binding polymer polyacrylonitrile, was used for nickel separation and concentration. Method for preparation of ⁵⁹Ni sample for LEPS was developed using homogeneous precipitation of nickel with DMG. Proposed radioanalytical method was tested with two types of real radioactive wastes (boric acid concentrate from NPP evaporator and primary circuit coolant ionex resin).

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