

DETERMINATION OF RADIONUCLIDES IN URINE

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Methods of analysis of nuclides (U, Th, ^3H , I-131, etc.) in urine of persons that might be contaminated by these sources of radiation are being developed at the Instituto de Energia Atômica (IEA). The aim of the work is to verify a possible internal contamination and a suitable control. The techniques to determine the amount of uranium by fluorimetry, tritium by liquid scintillation, iodine-131 by NaI(Tl)

scintillation counter are already used routinely to monitor people working at the IEA and other Institutions and Industries. The analysis of thorium by colorimetry are in the final developing stage and the method of analyses of fluorine and lead in urine are also being studied.