

Peer-reviewed

A generator for production of 212Pb and 212Bi

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Summary: A generator has been developed for the production of the α-emitting radionuclide 212 Bi and its parent nuclide 212 Pb. The genrator is based on the emanation of 220 Rn from [228 Th]barium stearate. The decay product of 220 Rn, 212 Pb deposits on the walls of a polyethylene botlle, and can be washed off with distilled water. The generator shows no leakage of any long-lived parent nuclides, is easy to operate and has a high degree of radiation safety

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