

Title (en)
Procedure for the preparation of radioisotopes

Title (de)
Verfahren zur Herstellung von Radioisotopen

Title (fr)
Procedé destiné à la preparation de radio-isotopes

Publication
EP 1883079 B1 20090506 (EN)

Application
EP 06425518 A 20060724

Priority
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Abstract (en)
[origin: EP1883079A1] A procedure for the preparation of radioisotopes consisting of a first step of electrodepositing a metallic isotope target to be irradiated on a target-holder element, a second step of irradiating the target, a third step of dissolving the target and a fourth set of purifying the radioisotope from the initial metallic isotope and from other possible radioactive and metallic impurities; the electrodeposition step in turn consisting of a dissolution operation in which the isotope to be irradiated is dissolved in a solution of HNO₃ with concentration from 0.5 to 2.5 M, a pH buffering operation, and a recirculation operation, in which the solution obtained above is circulated at a rate from 0.5 to 3 within an electrolytic cell during the current output within the cell itself; the electrodeposition of the target to be irradiated occurs within the electrolytic cell during the recirculation operation.

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