

Title (en)  
METHOD AND DEVICE FOR PRODUCING A Tc-99m REACTION PRODUCT

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR PRODUKTION EINES Tc-99m REAKTIONSPRODUKTS

Title (fr)  
PROCÉDÉ ET DISPOSITIF POUR LA FABRICATION D'UN PRODUIT DE RÉACTION Tc-99m

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Application  
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Abstract (en)  
[origin: CA2788615A1] The invention relates to a method for producing a reaction product containing 99mTc, comprising the following steps: providing 100Mo-metal targets to be irradiated, irradiating the 100Mo-metal target with a proton stream having an energy for the induction of a 100Mo(p, 2n) 99mTc core reaction, heating the 100Mo-metal target to a temperature of over 300 °C, recovering incurred 99mTc in a sublimation-extraction process with the aid of oxygen gas which is conducted over the 100Mo-metal target forming 99mTc- Technetium oxide. The invention further relates to a device for producing the reaction product containing 99mTc, comprising: a 100Mo metal target, an acceleration unit for providing a proton stream, which can be directed to the 100Mo-Metal target, such that a 100Mo (p, 2n) 99mTc core reaction is induced upon irradiation of the 100Mo-metal target by the proton stream, a gas supply line for conducting oxygen gas onto the irradiated 100Mo-metal target to form 99mTc- Technetium oxide, and a gas discharge line to discharge the sublimated 99mTc- Technetium oxide.

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