

Title (en)

Process for separating technetium-99m from molybdenum-99.

Title (de)

Verfahren zur Trennung von Technetium-99m von Molybdän-99.

Title (fr)

Procédé pour séparer le technétium-99m du molybdène-99.

Publication

EP 0014957 A1 19800903 (DE)

Application

EP 80100734 A 19800214

Priority

DE 2906439 A 19790220

Abstract (en)

1. A process for separating technetium-99m from molybdenum-99 bound to alumina, using eluents from nuclide generators, which comprises fixing on the alumina a copper salt in a weight ratio of Cu to Al₂O₃ between 1 : 10 to 1 : 5000, preferably 1 : 50 to 1 : 300, by dissolving the copper salt in water and suspending the corresponding quantity of acid alumina in the resulting solution, subsequently adjusting the pH to a value between 4 and 9, preferably between 6.5 and 7.5, separating the alumina loaded with copper and drying it at temperatures between 120 and 250 degrees C.

Abstract (de)

Es wird ein Verfahren zur Trennung von Technetium-99m von an Aluminiumoxid gebundenem Molybdän-99 mit Elutionsmitteln aus Nuklidgeneratoren beschrieben, in welchem dem Elutionssystem ein Kupfer-Salz, vorzugsweise ein Cu(II)-Salz zugesetzt wird.

IPC 1-7

G21G 1/00; A61K 43/00

IPC 8 full level

C22B 61/00 (2006.01); **B01D 15/08** (2006.01); **C01G 39/00** (2006.01); **C01G 99/00** (2010.01); **G21G 1/00** (2006.01); **G21G 1/04** (2006.01)

CPC (source: EP)

G21G 1/04 (2013.01)

Citation (search report)

- DE 1929067 A1 19700115 - SQUIBB & SONS INC
- FR 2148456 A1 19730323 - RADIOCHEMICAL CENTRE LTD

Cited by

DE4229327A1; EP0213589A3; DE3531355A1; US4837110A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0014957 A1 19800903; **EP 0014957 B1 19830706**; AT E4024 T1 19830715; DE 2906439 A1 19800904; DE 3064003 D1 19830811; JP H0149647 B2 19891025; JP S55113628 A 19800902

DOCDB simple family (application)

EP 80100734 A 19800214; AT 80100734 T 19800214; DE 2906439 A 19790220; DE 3064003 T 19800214; JP 1928180 A 19800220