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Application of extraction chromatography to the separation of Sc and Zr isotopes from target materials

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Non-standard isotopes such as Sc-44/47 and Zr-89 are increasingly finding interest in radiopharmaceutical applications. Methods for the separation of these elements from typical target materials were developed. The methods are based on the use of extraction chromatographic resins such as UTEVA and DGA resin. Information on the selectivity of the resins (Dw values of selected elements in HCl and HNO3 of varying concentration) will be presented as well as results of the method development such as elution studies, chemical recoveries and decontamination factors.

Developed methods are based on the use of vacuum supported separation allowing for fast and selective separation.

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