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(54) Title: METHOD FOR RAPID PREPARATION OF SUITABLE [¹⁸F]FLUORIDE FOR NUCLEOPHILIC [¹⁸F]FLUORINATION.

(57) Abstract: The invention generally relates to the preparation of ¹⁸F-labeled radiopharmaceuticals. In particular, this invention relates to the advanced processes for an efficient elution of [¹⁸F]fluoride trapped in a cartridge filled with quaternary ammonium polymer which comprises inert non-basic and non-nucleophilic counter anions. The said methods and polymer cartridges allow the rapid preparation of suitable [¹⁸F]fluoride solution, which is also less basic to reduce the formation of byproducts, finally to increase radiochemical yield and purity of ¹⁸F-radiopharmaceuticals.



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