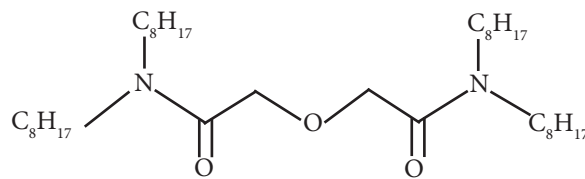


DGA-SHEETS – A DGA IMPREGNATED CHROMATOGRAPHIC PAPER

Product leaflet

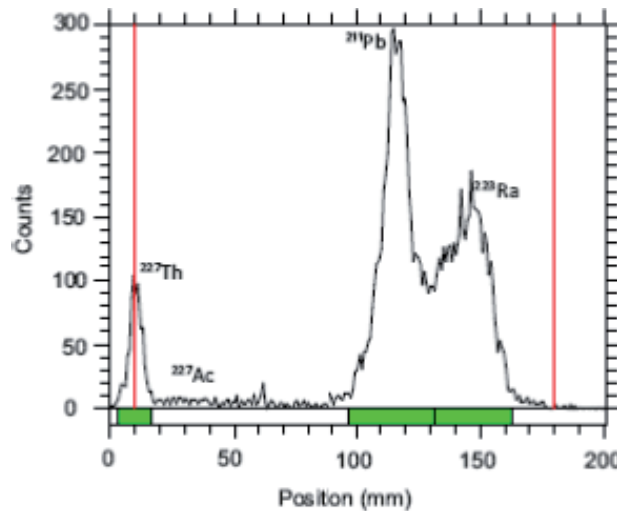
Radionuclide separation and radionuclidic purity determination was never easier. Separation of generator isotopes and radionuclide mixtures on DGA impregnated chromatographic paper, which has been developed at the CVUT, including mixtures like $^{227}\text{Ac}/^{227}\text{Th}$ / ^{223}Ra , $^{90}\text{Sr}/^{90}\text{Y}$, $^{68}\text{Ge}/^{68}\text{Ga}$, $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$, ^{212}Pb and $^{225}\text{Ac}/^{213}\text{Bi}$ is now possible using one separation material, just by changing the composition of the mobile phase (diluted mineral acids like 1M HNO_3 or HCl). The chromatographic paper is impregnated with DGA with variable active compound loading (0.1-10%). The method is easy to validate and TLC scanners or alternatively, after cutting the paper, common radiometers may be used to determine radionuclidic purity of a generator eluate or a purified radionuclide product.



DGA structure

Proposed standard sheet dimensions are 5 x 20 cm or 20 x 20 cm. Other formats and custom dimensions are however also available upon request.

Feel free to request test samples for your application at mailretd@triskem.fr.



Example of ^{227}Ac , ^{227}Th , ^{211}Pb and ^{223}Ra separation.

Product images

