

Abstract**MILLIFLUIDIC CHROMATOGRAPHY PLATE**

Chromatography plate for the separation and detection of ion selective ligands and their complexes. The combination of an enhanced chromatographic separation process with an
5 ultraviolet imaging device for detection is developed for selective and simultaneous multiple ion sensing. The method involves the fabrication of microfluidic channels on a porous chromatographic substrate to enhance separation of ligands containing ultraviolet chromophores and their complexes with ions of interest. The chromatographic plate is analyzed under an ultraviolet imaging device to quantify the concentration of the different ions
10 present in a sample.

The most illustrative drawing is Figure 1.