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(54) Title: HYDROPHOBIC SURFACE CHIP

(57) Abstract: The invention provides a water-swellaable hydrophobic hydrogel and analytical devices incorporating the hydrogel of the invention. Also provided are methods of using the hydrogel to prepare the analytical devices and methods of using the analytical devices to detect, quantitate and discriminate between analytes in a sample. Moreover, the invention provides kits that include components of a hydrogel and instructions for making a chip with a hydrophobic surface.



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