ABSTRACT

ADDRESSABLE CHEM/BIO CHIP ARRAY

Addressable bio/chem chips (10) include a plurality of isolated test cells, each addressable by at least two electrodes (16, 18) for measuring electrical characteristics of probe/test molecule interactions. In one embodiment, electrodes are arranged in cells, with each cell including a counter electrode surrounded encircled by working electrodes. Portions of the planar surface of the chip not covered by electrolyte pads can be hydrophobic. Pads associated with the electrodes can be formed of insoluble material for binding to samples of interest.

Figure 1