Title (en)
BIOSENSOR FOR CELLS

Title (de)
BIOSENSOR FÜR ZELLEN

Title (fr)
BIOCAPTEUR POUR CELLULES

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Abstract (en)
[origin: WO9840739A1] A system and method for assaying presence and optionally concentration of cells in a liquid medium, as well as a sensing member for use in the system or method, are provided. The sensing member comprises a piezoelectric crystal provided on its surface with a metal plate in which there are immobilized specific binding entities which specifically bind to an epitope on the surface of said cells. Binding or release of the cells from the specific binding entities causes a change in mass and hence a change in resonance frequency of the piezoelectric crystal. Measuring the change in the resonance frequency provides an indication of presence of the assayed cells in a medium. Determining of the extent of change in resonance frequency may be used to determine the concentration of the cells in the medium. By a specific embodiment the assayed cells are chlamydia and the liquid medium is urine.

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