

Title (en)

METHOD FOR DETECTING POTENTIAL CELLULAR TOXICITY OF COMPOUNDS

Title (de)

VERFAHREN ZUR PRÜFUNG DER POTENTIELLEN ZELLTOXIZITÄT VON VERBINDUNGEN

Title (fr)

METHODE DE DETECTION DE LA TOXICITE CELLULAIRE POTENTIELLE DE COMPOSES

Publication

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Application

EP 99921069 A 19990601

Priority

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- US 8797798 P 19980604

Abstract (en)

[origin: WO9963343A1] The subject invention involves a test procedure for screening for potential cellular toxicity of a test compound comprising the following steps: a) making liposomes from one or a mixture of lipids to simulate a cell membrane composition of interest, the liposomes being made in an aqueous medium having a pH which is thereby the inside pH of the liposomes; b) incorporating the liposomes in an aqueous test medium having a pH at least about 0.5 pH units above the inside pH of the liposomes, whereby a pH gradient exists between the test medium and the insides of the liposomes; c) incorporating a fluorescent dye in the test medium, the dye having a tendency to penetrate into the liposomes due to the pH gradient, the dye being pH sensitive such that the fluorescence of the dye is quenched inside the liposomes; d) incorporating the test compound in the test medium; whereby, if the test compound disrupts the structure of the liposomes or otherwise causes dissipation of the pH gradient between the test medium and the insides of the liposomes, the fluorescence of the dye is not quenched; e) determining the fluorescence of the test medium and comparing the determination with those of controls.

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