



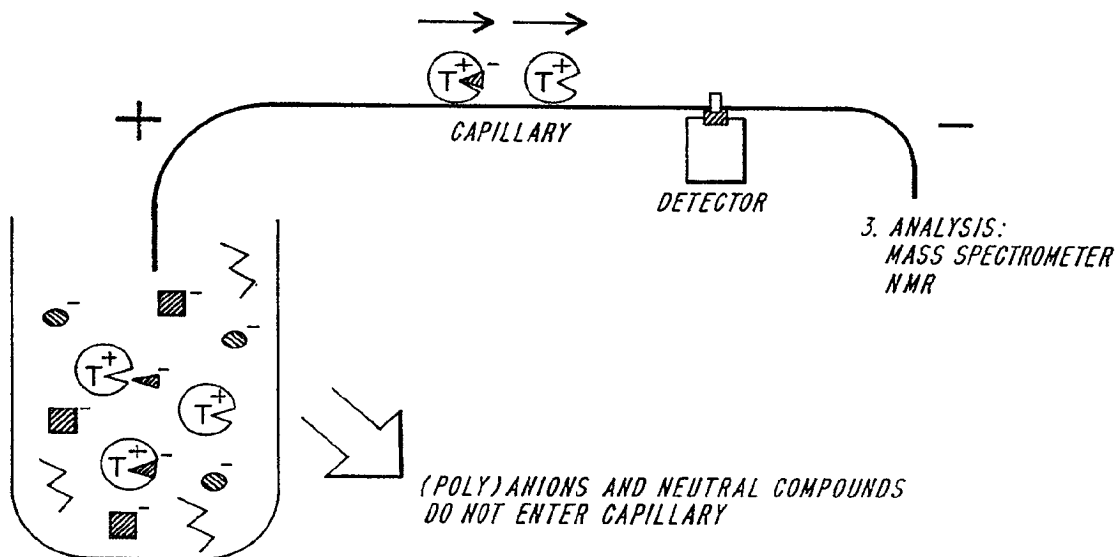
(86) Date de dépôt PCT/PCT Filing Date: 1996/12/10  
 (87) Date publication PCT/PCT Publication Date: 1997/06/19  
 (45) Date de délivrance/Issue Date: 2005/09/20  
 (85) Entrée phase nationale/National Entry: 1998/06/03  
 (86) N° demande PCT/PCT Application No.: US 1996/019779  
 (87) N° publication PCT/PCT Publication No.: 1997/022000  
 (30) Priorités/Priorities: 1995/12/11 (60/008,503) US;  
 1996/06/12 (08/662,085) US

(51) Cl.Int.<sup>6</sup>/Int.Cl.<sup>6</sup> G01N 33/53, C12Q 1/68, C12Q 1/25,  
 G01N 27/447, G01N 33/558  
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(54) Titre : EVALUATION RAPIDE D'ECHANTILLONS NATURELS POUR LA DETECTION D'AGENTS  
 THERAPEUTIQUES NOUVEAUX, PAR ELECTROPHORESE CAPILLAIRE  
 (54) Title: SCREENING NATURAL SAMPLES FOR NEW THERAPEUTIC COMPOUNDS USING CAPILLARY  
 ELECTROPHORESIS

DESCRIPTION OF TECHNOLOGY

2. BOUND TARGET (OR COMPETITOR) IS SEPARATED  
 FROM UNBOUND SPECIES



1. TARGET MOLECULE BINDS LIGANDS  
 IN NATURAL SAMPLE

(57) Abrégé/Abstract:

A method in which natural sample components are simultaneously fractionated and screened for compounds that bind tightly to specific molecules of interest is disclosed. Such newly isolated ligands are good candidates for potential therapeutic or diagnostic

**(57) Abrégé(suite)/Abstract(continued):**

compounds. The natural sample is first combined with a potential target molecule and then subjected to capillary electrophoresis (CE). Charged (or even neutral) compounds present in the natural sample that bind to the added target molecule can alter its normal migration time upon CE, by changing its charge-to-mass ratio, or will cause a variation in peak shape or area. Complex formation can be detected by simply monitoring the migration of the target molecule during electrophoresis. Any new ligands that bind to the target molecule will be good candidates for therapeutic or diagnostic compounds. Interfering, weak-binding ligands commonly present in crude extracts are not detected. Small, neutral ligands, as well as charged ligands, can be identified in competitive binding experiments with known, charged competitor molecules.