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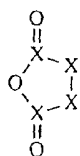
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- (74) Agent: **SANDBERG, Victoria, A.**; Mueting, Raasch & Gebhardt, P.A., P.O. Box 581415, Minneapolis, MN 55458-1415 (US).
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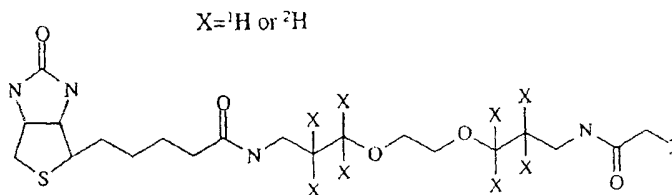
(54) Title: CONTROLLING ISOTOPE EFFECTS DURING FRACTIONATION OF ANALYTES

A



X=<sup>12</sup>C or <sup>13</sup>C

B



(57) Abstract: Compositions and methods for controlling or eliminating isotope effects during fractionation of chemically equivalent but isotopically distinct compounds. Isotope coding agents contain heavy isotopes other than deuterium. The invention facilitates intelligent data acquisition. After sample fractionation, isotope abundance ratios are calculated using mass spectrometry, and analytes of interest are identified in real time.



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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/30742

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 G01N33/68 G01N33/58

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                                                                                                               | Relevant to claim No. |
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*G\* document member of the same patent family

Date of the actual completion of the international search

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                   | Relevant to claim No. |
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PCT/US 02/30742

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