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Selective Sample Handling and Detection in High-Performance Liquid Chromatography

Journal of Chromatography Library, 39

part A

edited by R.W. Frei†, Free University, Amsterdam, The Netherlands, and K. Zech, Byk Gulden Pharmaceuticals, Konstanz, FRG

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part B

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Part B completes the treatment of the handling, separation and detection of complex samples as an integrated, interconnected process. On the basis of this philosophy the editors have selected those contributions which demonstrate that optimal sample preparation leads to a simplification of detection or reduced demands on the separation process. Throughout the book emphasis is on chemical principles with minimum discussion of the equipment required - an approach which reflects the editors' view that the limiting factor in the analysis of complex samples is an incomplete knowledge of the underlying chemistry rather than the hardware available. This lack of knowledge becomes more evident as the demands for lower detection limits grow, as solving complex matrix problems requires a greater understanding of the chemical interaction between the substance to be analysed and the stationary phase.

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See also 2189, 2279.

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112 (1990) 30009h, 30052s, 68723z, 68729f, 68762m.

See also 2327, 2328, 2346, 2378, 2402, 2415, 2479, 2494, 2507, 2511, 2533, 2789, 2876, 2901, 3069, 3145.

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112 (1990) 11258x, 15756f, 23134s, 39075j, 39251p, 48084p,
48086r, 57111x, 57433d, 57816f, 57817g, 57927t,
58338p, 59102u, 59151j, 61543g, 61575u, 69037r,
69215x.

See also 2103, 2105, 2129, 2157, 2275, 2288, 2299, 2312, 2576, 2783,
2920, 2921, 2935, 3119, 3121, 3125.

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3f. Programmed temperature, pressure, vapors, gradients

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See also 2913.

3g. High performance procedures

See 2204, 3124.

4. SPECIAL TECHNIQUES

4a. Automation and computerization

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See also 2096, 2111, 2112, 2145, 2162, 2187, 2247, 2309, 2428, 2455, 2564, 2883, 3120.

4b. Combination of various chromatographic techniques

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17. AMINES, AMIDES AND RELATED NITROGEN COMPOUNDS

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18. AMINO ACIDS AND PEPTIDES; CHEMICAL STRUCTURE OF PROTEINS

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20. ENZYMES AND ENZYME ACTIVITY ESTIMATION

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21. PURINES, PYRIMIDINES, NUCLEIC ACIDS AND THEIR CONSTITUENTS

21a. Purines, pyrimidines, nucleosides, nucleotides

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See also 2465, 2503, 2706, 2707.

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see also 2786, 2787, 2942, 2975.

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C.A., 111 (1989) 166686p, 166687q, 224714j, 230764s;
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See also 2975, 3052.

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See also 2863, 2942.

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C.A., 111 (1989) 208639h, 224711f;
112 (1990) 25359t, 25446u, 25749v, 25775a, 42211f, 42403v,
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32h. Toxicological and forensic applications

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See also 2452, 2470, 3025.

33. CLINICO-CHEMICAL APPLICATIONS

33a. General papers and reviews

See 2792.

33b. Complex mixtures and profiling (single compounds by cross-reference only)

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See also 2335, 2366, 2379, 2382, 2387, 2401, 2425, 2427, 2433, 2436, 2441, 2443, 2444, 2450, 2461, 2464, 2476, 2480, 2489, 2498, 2512, 2544, 2634, 2718, 2751, 2767, 2770, 2848, 2860.

34. FOOD ANALYSIS

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See also 1256, 1300, 1345.

17. AMINES, AMIDES AND RELATED NITROGEN COMPOUNDS

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See also 1059, 1305.

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See also 1261.

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See also 999.

19. PROTEINS

19e. Proteins of blood, serum and blood cells

See 1348.

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23c. Indole derivatives

See 1159.

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See also 1312.

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See also 1040.

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See also 1288.

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See also 1288.

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See 1062.

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See also 963, 975, 1334.

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See also 943, 945.

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See also 1180.

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See also 1083.

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See also 1065, 1254, 1276.

32e. Chemotherapeutics (except cytostatics and antibiotics)

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See also 1091, 1106, 1131, 1137, 1149, 1154, 1196.

34. FOOD ANALYSIS

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See also 468, 630, 636, 702, 705, 706, 707.

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See 507, 511, 693.

3e. Preparative scale chromatography

See 474, 478, 509.

3f. Programmed temperature, pressure, vapors, gradients

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33. CLINICO-CHEMICAL APPLICATIONS

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4e. Two dimensional electrophoresis

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see 1032.

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25. ORGANIC PHOSPHORUS COMPOUNDS (INCLUDING SUGAR PHOSPHATES)

see 1023.

26. ORGANOMETALLIC AND RELATED COMPOUNDS

26c. Coordination compounds

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33. CLINICO-CHEMICAL APPLICATIONS

33b. Complex mixtures and profiling (single compounds by cross-reference only)

- See 851, 854, 855, 859, 860, 865, 923, 924, 954, 968, 972, 983, 996, 1003, 1034, 1051, 1076.

34. FOOD ANALYSIS

34b. Complex mixtures (single compounds by cross-reference only)

See 947.

36. SOME TECHNICAL PRODUCTS AND COMPLEX MIXTURES

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PUBLICATION SCHEDULE FOR 1990

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Chromatography and Modification of Nucleosides

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