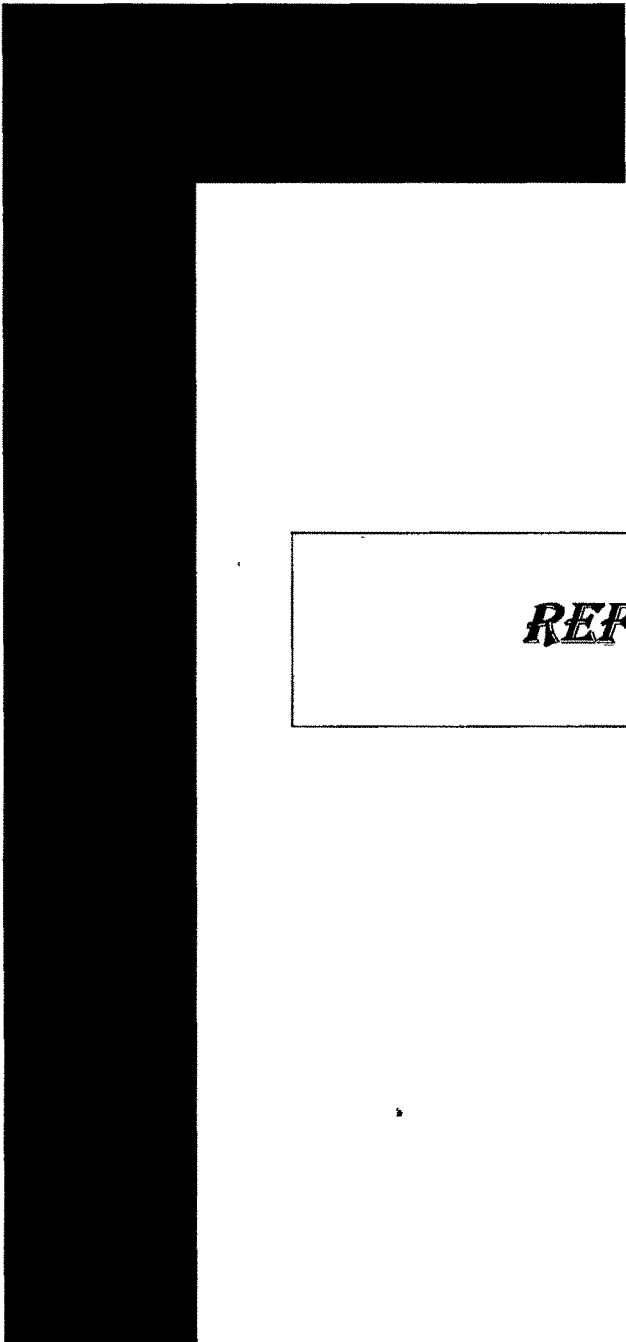




REFERENCES

REFERENCES



REFERENCES

1. Satinder Ahuja , *Impurities evaluation of pharmaceuticals*, 1998, 1-6.
2. *United states pharmacopeia* ,volume 29, chapter 467, 2006.
3. Giddings, J.C. and Eyring, H., A molecular dynamic theory of chromatography. *J. Phys. Chem.*, 59, 1953, 416-421.
4. Giddings, J.C , Stochastic considerations on chromatography dispersion *J. Chem. Phys.*, 26, 1957, 169-173.
5. Giddings, J.C., The random downstream migration of molecules in chromatography. *J. Chem. Educ.*, 35,1958, 588-591.
6. MacQuarrie, D. A., On the stochastic theory of chromatography. *J. Chem. Phys.*, 38, 1963, 437-445.
7. Scott, D. M. and Fritz, J. S., Model for chromatographic separation based on renewal theory. *Anal. Chem.*,56, 1984, 1561-1566.
8. Dondi, F. and Remelli, M., The characteristic function method in the stochastic theory of chromatography. *J. Phys. Chem.*, 90, 1986, 1885-1891.
9. Woodbury, C. P., Jr., A stochastic model of chromatography. *J. Chromatogr. Sci.*, 32, 1994, 339-348.
10. Jonsson, J. A. (Ed.), *Chromatographic Theory and Basic Principles*. Marcel Dekker, Inc., New York and Basel,1987.
11. Heftmann, E. (Ed.), *J Chromatography, Part A: Fundamentals and Techniques*. Elsevier, Amsterdam, 1983.
12. Scott, R P. and Kucera, P., Solute-solvent interactions on the surface of silica gel. *J. Chromatogr* , 149, 1972,93-110.
13. Slaats, E. H., Kraak, J. c., Brugman, W. J. T., and Poppe, H., Study of the influence of competition and solvent interaction on retention in liquid-solid chromatography by measurement of activity coefficients in the mobile phase. *J. Chromatogr.*, 149, 1978, 255-270
14. Slaats, E. H., Markowski, W., Fekete, J., and Poppe, H., Distribution equilibria of solvent components in reversed-phase liquid chromatographic columns and relationship with the mobile phase volume. *J. Chromatogr.*, 207, 1981, 299-323

15. Busev, S. A., Zverev, S. I., Larionov, O. G., and Jakubov, S., Study of adsorption from solutions by column chromatography. *J. Chromatogr.*, 241, 1982, 287-294.
16. Selim, M. I., Parcher, J. E., and Lin, P. J., Adsorption of polar solutes on liquid-modified supports. *J. Chromatogr.*, 239, 1982, 411-421.
17. Wahlund, K. G. and Beijertsen, I., Adsorption of I-pentanol on alkyl-modified silica and its effect on the retention mechanism in reversed-phase liquid chromatography. *Anal. Chem.*, 54, 1982, 128-132.
18. Hill, T. I., Statistical mechanics of adsorption. VI. Localized unimolecular adsorption on a heterogeneous surface. *J. Chem. Phys.*, 17, 1949, 762-771.
19. Rudzinski, W., Jagiello, J., and Grillet, Y., Physical adsorption of gases on heterogeneous solid surfaces: Evaluation of the adsorption energy distribution from adsorption isotherms and heats of adsorption. *J. Colloid Interface Sci.*, 87, 1982, 478-491.
20. Rudzinski, W., Oscik, J., and Dabrowski, A., Adsorption from solutions on patchwise heterogeneous solids. *Chem. Phys. Lett.*, 20, 1973, 444-447.
21. Rudzinski, W. and Partyka, S., Adsorption from solutions on solid surfaces: Effects of surface heterogeneity on adsorption isotherms and heats of immersion. *J. Chem. Soc. Faraday Trans.*, 1, 77, 1981, 2577-2584.
22. Rudzinski, W., Narkiewicz-Michalek, J., and Partyka, S., Adsorption from solutions on solid surfaces: Effects of topography of heterogeneous surfaces on adsorption isotherms and heats of immersion. *J. Chem. Soc. Faraday Trans.*, 1, 78, 1982, 2361-2368.
23. Snyder, L. R. and Glajch, J., Solvent strength of multicomponent mobile phases in liquid-solid chromatography: binary solvent mixtures and solvent localization. *J. Chromatogr.*, 214, 1981, 1-19.
24. Snyder, L. R., Mobile phase effects in liquid-solid chromatography: importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding. *J. Chromatogr.*, 255, 1983, 3-26.
25. Jaroniec, M., Klepacka, B., and Narkiewicz, J., Liquid adsorption chromatography with a two-component mobile phase. *J. Chromatogr.*, 170, 1979, 299-307.
26. Scott, R. P. and Kucera, P., Solute interactions with the mobile and stationary phases in liquid-solid chromatography. *J. Chromatogr.*, 112, 1975, 425-442.
27. Paanakker, J. E., Kraak, J. C., and Poppe, H., Some aspects of the mobile phase composition in normal phase liquid-solid chromatography, with special attention to the role of water present in binary organic mixtures. *J. Chromatogr.*, 149, 1978, 111-126.

28. Schoenmakers, P. J., Billiet, H. A. H., and de Galan, I., Systemic study of ternary solvent behavior in reversed-phase chromatography. *J. Chromatogr.*, 218, 1981, 261-284.
29. Jandera, P., Colin, H., and Guiochon, G., Interaction indexes for prediction of retention in reversed-phase liquid chromatography. *Anal. Chem.*, 54, 1982, 435-441.
30. Horvath, C., Melander, W., and Molmár, I., Solvophobic interactions in liquid chromatography with nonpolar stationary phases. *J. Chromatogr.*, 125, 1976, 129-156.
31. Reichardt, C., Empirical parameters of solvent polarity and chemical reactivity. *Molec. Interact.*, 3, 1982, 241-283.
32. Rohrschneider, I., Solvent characterization by gas-liquid partition coefficients of selected solutes. *Anal. Chem.*, 45, 1973, 1241-1247.
33. Snyder, L. R., Classification of the solvent properties of common liquids. *J. Chromatogr.*, 92, 1974, 223-230.
34. Karch, K., Sebastian, I., and Hahisz, I., Preparation and properties of reversed phases. *J. Chromatogr.*, 122, 1976, 3-16.
35. Wells, M. J. M. and Clark, C. R., Liquid chromatographic elution characteristics of some solutes used to measure column void volume on C₈ bonded phase. *Anal. Chem.*, 53, 1981, 1341-1345.
36. Berendsen, G. E., Schoenmakers, P. J., Galan, G., Vigh, G. Z., Varga Puchonyi, Z., and Inczedy, I., On the determination of hold-up time in reversed-phase liquid chromatography. *J. Liquid Chromatogr.*, 3, 1980, 1669-1682.
37. Knox, J. H. and Kaliszan, R., Theory of solvent disturbance peaks and experimental determination of thermodynamic dead-volume in column liquid chromatography. *J. Chromatogr.*, 349, 1985, 211-219.
38. Melander, W. R., Campbell, D. E., and Horvath, C., Enthalpy-entropy compensation in reversed-phase chromatography. *J. Chromatogr.*, 167, 1978, 215-225.
39. Unger, K. K., *Porous Silica, Journal of Chromatography Library*, Vol. 16. Elsevier, Amsterdam, 1979.
40. Snyder, L. R., *Principles of Adsorption Chromatography*, Marcel Dekker, New York, 1968.
41. Berthod, A., Silica: backbone material of liquid chromatographic column packings. *J. Chromatogr.*, 549, 1991, 1-28.

42. Nondek, I. and Vyskocil, V., Determination of surface hydroxyl groups on silanized silica gels for reversed phase liquid-chromatography. *J. Chromatogr.*, 206, 1981, 581-585.
43. Poumeliotis, P. and Unger, K K, Structure and properties of n-alkyldimethylsilyl bonded silica reversed phase packings. *Chromatography*, 149, 1978, 211-224.
44. Kohler J. J., Chase, D. B., Farlee, R.D., Vega, A. J., and Kirkland, J. J., Comprehensive characterization of some silica-based stationary phases for high-performance liquid chromatography. *J. Chromatogr.*, 352, 1986, 275-305.
45. Hair, M. I., in Corey, E. R, Corey, J. P., and Gaspar, P. P. (Eds.), *Silicon Chemistry*, Ellis Horwood, Chichester, 1988, 481-489.
46. Ilier, R.K, *The Chemistry of Silica*. Wiley, New York, 1979.
47. Engelhard, H. and Miiller, H., Chromatographic characterization of silica surfaces. *J. Chromatogr.*, 218, 1981, 395-407.
48. Hair M. I. and Hertl, W., Acidity of surface hydroxyl groups. *J. Phys. Chem.*, 74, 1970, 91-94.
49. Unger K K, Janzen, R, Jilge, G., Lork, K D , and Anspach, B., in Horvath Cs. (Ed.), *High Performance Liquid Chromatography: Advances and Perspectives*, Vol. 5. Academic Press, London, 1988, pp 1-93.
50. Kiselev, A.V. and Lygin, V. J. *Infrared Spectra of Surface Compounds*. Wiley-Interscience, New York, 1975.
51. Brunauer, S., Emmeth, P. H., and Teller, E., Adsorption of gases in multirolecular layers. *J. Am. Chem. Soc.*, 60, 1938, 309-312
52. Gregg, S. J. and Sing, K S. W., *Adsorption, Surface Area and Porosity*. Academic Press, New York, 1982.
53. Everett, D. H., in Unger, K K, Rouquerol, J., Sing, K S. w., and Kral, H. (Eds.), *Characterization of Porous Solids* Elsevier, Amsterdam, 1988, pp 1-21.
54. Scott, R P. and Kucera, P., Some aspects of the chromatographic properties of thermally modified silica gel. *J. Chromatogr., Sci.*, 13, 1975, 337-346.
55. El Rassi, Z., Gonnet, C., and Rocca, J. I., Chromatographic studies of the influence of water and thermal treatment on the activity of silica gel. *J. Chromatogr.*, 125, 1976, 179-201.

56. Unger, K K, Regnier, E E., and Majors, R E. (Eds.), Liquid chromatography packings. *J. Chromatogr.*, 544, 1991.
57. Miller, N. T. and Di Bussolo, J. M., Studies on the stability of n-alkyl-bonded silica gels under basic pH conditions. *J. Chromatogr.*, 499, 1990,317-332.
58. Stadalius, M. A, Gold, H. 5., and Snyder, 1. R, Optimization model for the gradient elution separation of peptide mixtures by reversed-phase high-performance liquid chromatography. Verification of band width relationships for acetonitrile-water mobile phases. *J. Chromatogr.*, 327, 1985, 27-35.
59. Stancher, B. and Zonta, E, Comparison between straight and reversed-phase in the high-performance liquid chromatographic fractions of retinol isomers. *J. Chromatogr.*, 234, 1982, 244-248
60. Snyder,L. R, Glajch, J. 1., and Kirkland, J. J., *Practical HPLC Method Development*, Wiley, New York, 1988,Ch.3.
61. Kohler, J. and Kirkland, J. J., Improved silica-based column packings for high-performance liquid chromatography. *J. Chromatogr.*, 385, 1987, 125-133.
62. Kirkland, J. J., Dilks, C. H., Jr., and DeStefano, J. J., Normal phase high-performance liquid chromatography with highly purified silica microspheres. *J. Chromatogr.*, 635, 1993, 19-30.
63. Nahum A. and Horvath Cs., Surface silanols in silica-bonded hydrocarbonaceous stationary phases,*J. Chromatogr.*, 203, 1981, 53--64
- 64 Hearn, M. T. W. and Grego, B., High performance liquid chromatography of amino acids, paptides and proteins XL. Further studies on the role of the organic modifier in the reversed-phase high-performance liquid chromatography of polypeptides. *J. Chromatogr.*, 255, 1983, 125-136
65. Ohtsu, Y., Shiojima, Y., Ohumura, T., Koyama, J. 1., Nakamura, K., Nakata, O., Kimata, K., and Tanaka N., Performance of polymer-coated silica C18 packing materials prepared from high-purity silica gel.*J. Chromatogr.*, 481,1989, 147-157.
66. Jane, I., The separation of wide range of drugs of abuse by high-performance liquid chromatography. *J. Chromatogr.*, 111, 1975, 227-233.
67. Sugden, K, Cox, G. B., and Loscombe, C. R, Chromatographic behaviour of basic amino compounds on silica and ODS-silica using aqueous methanol mobile phases. *J. Chromatogr.*, 149 1978, 377-390.
68. Stou, R W., Cox, J. B., and Odiome, T. J , Surface treatment and porosity control of porous silica micro spheres. *Chromatographia*, 24, 1987, 602-612.

69. Derek, D. and Novak, I., Silica gel and carbon column packings for use in high-performance liquid chromatography. *Chromatographia*, 30, 1990, 582-590.
70. Buszewski, B., Derek, D., Garaj, J., Novak, I., and Suprynowicz, Z., Influence of the porous silica gel structure on the coverage density of a chemically bonded C18 phase for high-performance liquid chromatography. *J. Chromatogr.*, 446, 1988, 191-201.
71. Gilpin, R K, The bonded phase: structure and dynamics. *J. Chromatogr. Sci.*, 22, 1984, 371-377.
72. Buszewski, B., Characterization of C18 chemically modified silica-gel and porous glass phases by high-resolution solid state NMR spectroscopy and other physico-chemical methods. *Chromatographia*, 28, 1990, 233-242.
73. Pleiderer, B. and Bajer, E., Silanediol groups of the silica gel nucleosil: active sites involved in the chromatographic behaviour of bases. *J. Chromatogr.*, 486, 1989, 67-71.
74. Buszewski, B., Influence of silica gel surface purity on the coverage density of chemically bonded phases, *Chromatographia*, 34, 1992, 573-579.
75. Heidrich, D., Volkmann, D., and Zurawski, B., The place of SiOH groups in the absolute acidity scale from ab initio calculations. *Chem. Phys. Lett.*, 80, 1981, 60-63.
76. Sadek, P. c., Koester, C. J., and Bowers, L. D , The investigation of the influence of the trace metals in chromatographic retention processes. *J. Chromatogr. Sci.*, 25, 1987, 489-493.
77. Nawrocki, J., Silica surface controversies, strong adsorption sites, their blockage and removal. Part I. *Chromatographia*, 31, 1991, 177-192
78. Bij, K E , Horvath, Cs , Melander, W., and Nahum, A., Surface silanols in silica bonded hydrocarbonaceous stationary phases. Irregular retention behaviour and effect of silanol masking. *J. Chromatogr.*, 203, 1981, 65-84.
79. Cox, G B. and Stout, R W., Study of the retention mechanism for basic compounds on silica under "pseudo-reversed-phase" conditions. *J. Chromatogr.*, 384, 1987, 315-336.
80. Gilpin, R K and Burke, M. E, Role of tri- and dimethylsilanes in tailoring chromatographic adsorbents. *Anal. Chem.*, 45, 1973, 1383-1389.
81. Kong, T. M. and Simpson, C. E, Novel method for the preparation of chemically bonded phases of their chromatographic performance. *Chromatographia*, 24, 1987, 385-394.

82. Akopo, S. O., Scott, R.P., and Simpson, C. E, The production of stable uniform reverse-phases for liquid chromatography by oligomeric synthesis. *J. Liquid Chromatogr.*, 14, 1991, 217-236.
83. Scatt R.P., Control of retention by molecular interactions in RP-HPLC chromatography. *J. Chromatogr.*, 656, 1993, 51-68.
84. Lochmüller, C. H. and Wilder, D. R, The sorption behaviour of alkyl bonded phases in reverse-phase, high performance liquid chromatography. *J. Chromatogr. Sci.*, 17, 1979, 574-579.
85. Laub, R. J. and Purnell, J. H., Criteria for the use of mixed solvents in gas liquid chromatography. *J. Chromatogr.*, 112, 1975, 71-79.
86. Laub, R. J., in Kuwana, P. (Ed.), *Physical Methods in Modern Chromatographic Analysis*. Academic Press, New York, 1983, Ch. 4.
87. Murakami, E, Retention behaviour of benzene derivatives on bonded reversed-phase columns. *J. Chromatogr.*, 178, 1979, 393-399.
88. Geng, X and Regnier, E., Stoichiometric displacement of solvent by non-polar solutes in reversed-phase liquid chromatography. *J. Chromatogr.*, 332, 1985, 147-168
89. Hafkenscheid, T. L. and Tomlinson, E., Estimation of physicochemical properties of organic solutes using HPLC retention parameters. *Adv. Chromatogr.*, 25, 1986, 1-55.
90. Tanford, c., *The Hydrophobic Effect: Formation of Micelles and Biological Membranes*. Wiley-Interscience, New York, 1980. Ch. 1 and 2.
91. Tanaka, N. Tanigawa, T., Kimata, K, Hosoya, K, and Araki, T., Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography. *J. Chromatogr.*, 549, 1991, 29-41.
92. Horvith, Cs., Melander, W., and Molmir, I., Solvophobic interactions in liquid chromatography with nonpolar stationary phases. *J. Chromatogr.*, 125, 1976, 129-156.
93. Tanaka, N., Sakagami, K, and Araki, N., Effect of alkyl chain length of the stationary phase on retention and selectivity in reversed-phase liquid chromatography. Participation of solvent molecules in the stationary phase. *J. Chromatogr.*, 199, 1980, 327-337.
94. Wise, C. A. and May, W. E., Effect of C1s surface coverage on selectivity in reversed-phase liquid chromatography of polycyclic aromatic hydrocarbons. *Anal Chem.*, 55, 1983, 1479-1485
95. Sander, L. C. and Wise, S. A., Investigations of selectivity in RPLC of polycyclic aromatic hydrocarbons. *Adv Chromatogr.*, 25, 1986, 139-155

96. Jinno, K, Nagoshi T., Tanaka, N., Okomoto, M., Fetzer, J. c., and Biggs, W. R, Elution behaviour of planar and non-planar polycyclic aromatic hydrocarbons on various chemically bonded stationary phases in liquid chromatography. *J. Chromatogr.*, 392, 1987, 75-82.
97. Jinno, K, Ibuki, T., Tanaka, N., Okomoto, M., Fetzer, J. c., Biggs, W. R, Griffiths, P. R, and Olinger, J. M., Retention behaviour of large polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography on a polymeric octadecylsilica stationary phase. *J. Chromatogr.*, 461, 1989, 209-227.
98. Bakalyar, S. R, McIlwrick, R, and Roggendorf, E., Solvent selectivity in reversed-phase high-pressure liquid chromatography. *J. Chromatogr.*, 142, 1977, 353-365.
99. Tanaka, N., Goodell, H. and Karger, B. L., The role of organic modifiers on polar group selectivity in reversed-phase liquid chromatography. *J. Chromatogr.*, 158, 1978, 233-248.
100. Tanaka, N. and Araki, M., Polymer-based packing materials for reversed-phase liquid chromatography. *Adv. Chromatogr.*, 30, 1989, 81-102.
101. Tanaka, N., Hashizume, K and Araki, M., Comparison of polymer-based stationary phases with silica based stationary phases in reversed-phase liquid chromatography. Selective binding of rigid, compact molecules by alkylated polymer gels. *J. Chromatogr.*, 400, 1987, 33-45.
102. Nevejans, F. and Verzele, M., On the structure and chromatographic behaviour of polystyrene phases. *J. Chromatogr.*, 406, 1987, 325-342.
103. Hosoya, K, Maruya, S., Kimata, K, Kinoshita, H., Araki, T., and Tanaka, N., Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization. *J. Chromatogr.*, 625, 1992, 121-129.
104. Tanaka, N., Ebata, T., Hashizume, K and Araki, M., Polymer-based packing materials with alkyl backbones for reversed-phase liquid chromatography. Performance and selectivity. *J. Chromatogr.*, 475, 1989, 195-208.
105. Uchida, T., Ohtani, T., Kasai, M., Yanagihara, Y., Noguchi, K, Izu, H, and Hara, S., Chemically behaviour and analysis on a chemically stable Cls-bonded vinyl alcohol copolymer column with alkaline and acidic eluents. *J. Chromatogr.*, 506, 1990, 327-334.
106. Afeyan, N. B., Fulton, S. P., and Regnier, F. E., Perfusion chromatography packing material for peptides and proteins. *J. Chromatogr.*, 544, 1991, 267-279.

107. Colin, H., Eon, c., and Guichon, G., Reversed-phase liquid-solid chromatography on modified carbon black, *J. Chromatogr.*, 122 1976, 223-242.
108. Colin H. and Guichon G., Comparison of some packings for reversed-phase high-performance liquid solid chromatography. *J. Chromatogr.*, 158, 1978, 183-205.
109. Scott, RP., The role of molecular interactions. *J. Chromatogr.*, 122, 1976, 35-53.
110. Katz, H. D., Ogan, K, and Scott, RP., Distribution of a solute between two phases. The basic theory and its application to the prediction of chromatographic retention. *J. Chromatogr.*, 352, 1986, 67-90.
111. Jandera, P. and Chumicek, J., Gradient elution in liquid chromatography. The influence of the composition of the mobile phase on the capacity ratio (retention volume, band width, and resolution) in isocratic elution - theoretical considerations. *J. Chromatogr.*, 91, 1974, 207-221.
112. Schoenmakers, P., Billiet, H. A. H., Tijssen, R, and de Galan, 1., Gradient elution in reversed-phase liquid chromatography *J. Chromatogr.*, 149, 1978, 519-537.
113. Karger, B. 1 , Gant, J. R, Hartkopf, A., and Weiner, P. H., Hydrophobic effects in reversed-phase liquid chromatography. *J. Chromatogr.*, 128, 1976, 65-78.
114. Horvath, Cs. and Melander, W., Liquid chromatography with hydrocarbonaceous bonded phases; theory and practice of reversed phase chromatography. *J. Chromatogr., Sci.*, 15, 1977, 393-404.
115. McCormick, R M. and Karger, B. 1., Distribution phenomena of mobile-phase components and determination of dead volume in reversed-phase liquid chromatography. *Anal. Chem.*, 52, 1980, 2249-2257
116. Slaats, H. E., Markowski, W , Fekete, J., and Poppe, H., Distribution equilibria of solvent components in reversed-phase liquid chromatographic columns and relationship with the mobile phase volume., *Chromatogr.*, 207, 1981, 299-323.
117. Jandera, P., Colin, H., and Guichon, G., Interaction indexes for prediction of retention in reversed-phase liquid chromatography. *Anal. Chem.*, 54, 1982, 435-441.
118. Jandera, P., Method for characterization of selectivity in reversed-phase liquid chromatography. 1. Derivation of the method and verification of the assumptions *J. Chromatogr.*, 352, 1986, 91-110
119. Snyder, L. and Kirkland, J. J., *Introduction to Modern Liquid Chromatography*. Wiley-Interscience, New York, 1979.

120. Jandera, P., Correlation of retention and selectivity in reversed-phase high performance liquid chromatography with interaction indices and with lipophilic and polar structural indices. . *Chromatogr.*, 656,1993, 437-467.
121. Kaliszan, R, *Quantative Structure-Chromatographic Retention Relationships*, Wiley, New York, 1987.
122. Reichardt, c., *Solvent Effects in Organic Chemistry*. Verlag Chemie, Weinheim, 1979.
123. Hansch, C. and Fujita, T., p-cr-1t Analysis. A method for the correlation of biological activity and chemical structure.' *Am. Chem. Soc* , 86, 1964, 1616-1626.
124. Free, S. M., Jr. and Wilson, J. E, A mathematical contribution to structure-activity studies. *J Med. Chem.*,7, 1964, 395-399.
125. Kaliszan R, in Brown, P. Rand Hartwick, R A (Eds.), *High Performance Liquid Chromatography*, Wiley,New York, 1989, Ch. 4.
126. Tljsen, R, Billiet, H. A. H., and Schoenmarkers, P. J , Use of the solubility parameter for predicting selectivity and retention in chromatography. *J. Chromatogr.*, 122, 1976, 185-203.
127. Martine, D. E. and Boehmn, R E., Molecular theory of liquid adsorption chromatography. *J. Liquid Chromatogr.*,3, 1980,753-774
128. Carr, P. W, Doherty, R M , Kamlet, M. J., Taft, R W, Melander, W, and Horvcith, Cs., Study of temperature and mobile-phase effects in reversed-phase high-performance liquid chromatography by the use of the solvatochromic comparison method. *Anal. Chem.*, 58, 1986, 2674-2689
129. Synder, I. R, Carr, P. W., and Rutan, S. c , Solvatochromically based solvent-selectivity triangle. *Chromatogr.*, 656, 1993, 537-547.
130. Dill, K A., The mechanism of solute retention in reversed-phase liquid chromatography. . *Phys. Chem.*,91,1987,1980-1988.
131. Ying, P. T., Dorsey, J. G., and Dill, K A., Retention mechanism of reversed-phase liquid chromatography:determination of solute-solvent interaction free energies. *Anal. Chem.*, 61, 1989, 2540-2546.
132. Sentell, K B. and Dorsey, J. G., Retention mechanism in reversed-phase liquid chromatography. Stationary phase bonding density and partioning. *Anal. Chem.*, 61, 1989,930-934.

133. JoOson, B. P., Khaledi, M. G., and Dorsey, J. G., Solvatochromic solvent polarity measurements and ion in reversed-phase liquid chromatography. *Anal. Chem.*, 58, 1986, 2354-2385.
134. Valk6, K, Snyder, 1. R, and Glajch, J. 1., Retention in reversed-phase liquid chromatography as a function of mobile-phase composition.'. *Chromatogr.*, 656, 1993, 501-520.
135. Fredeslund, A., Jones, R 1., and Prausnitz, J. M., Group-contribution estimation of activity coefficients in nonidealliquid mixtures. *AIChE* ., 21, 1975, 1086-1099.
136. Smith, R M. and Burr, C. M., Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. *J. Chromatogr.*, 550, 1991, 335-356.
137. Tsantili-Kakoulidou, A, El Tayar, N., van de Waterbeemdand, H., and Testa, B., Sructural effects in the lipohilicity of di- and polysubstituted benzenes as measured by reversed-phase high-performance liquid chromatography. . *Chromatogr* , 389, 1987, 33-45.
138. Boyce, C. B. C. and Millborrow, B. V., A simple assessment of partition data for correlating structure and biological activity using thin-layer chromatography. *Nature*, 208, 1965,537-539.
139. Soczewinski, E. and Wachtmeister, C. A, The correlation between the composition of certain ternary two phase solvent system and RM values. *J. Chromatogr* , 7, 1962, 311-320.
140. Snyder, L. R, Dolan, J. w., and Gant, J. R, Gradient elution in high-perfonnance liquid chromatography. Theoretical bases for reversed-phase systems. *J Chromatogr.*, 165, 1979,3-30.
141. Sherblom, P. M. and Eganhouse, RP., Correlation between octanol-water partition coefficients and reversed-phase high-perfonnance liquid chromatography capacity factors. *J. Chornatogr.*, 454,1988,37-50.
- 142 Braumann, T. and Jastorff, 8., Physico-chemical characterization of cyelic nueleotides by reversed-phase high-performance liquid chromatography. 11 Quantitative detennination of hydrophobicity. *J. Chromatogr.*,350,1985,105-118.
143. Michels, J. J. and Dorsey, J. D , Estimation the reversed-phase liquid chromatographic lipophilicity parameter log k~ using ET-30 solvatochromism. *J. Chromatogr.*, 499, 1990,435-451.

144. Braumann, T., Genieser, H. G., Lullmann, C, and Jastorff, B., Determination of hydrophobic parameters by reversed-phase high-performance liquid chromatography. Effect of stationary phase. *Chromatographia*, 24, 1987, 777-782.
145. Clark, C R, Barksdale, J. M., Mayfield, CA., Ravis, W. R, and DeRuiter, J., Liquid chromatographic measurement of hydrophobicity constants for n-arylsulfonylglycine aldose reductase inhibitors. *J. Chromatogr. Sci.*, 28, 1990, 83-92.
146. Unger, S. H. and Chiang, G. H., Octanol-physiological buffer distribution coefficients of lipophilic amines by reversed-phase high-performance liquid chromatography and their correlation with biological activity. *J Med. Chem.*, 24, 1981, 262-270.
147. Pietrogrande, M. C, Dondi, F., Blo, G., Borea, P. A., and Bigli, C, Octadecyl, phenyl and cyano phases comparison for the RP-HPLC prediction of octanol-water partition coefficient. *J. Liquid Chromatogr.*, 10, 1987, 1065-1075.
148. Biagi, G. L., Recanatini, M , Barbaro, A. M., Guerra, M. C, Sapone, A., Borea, P. A., and Pietrogrande, M. C, in Silipo, C and Vittoria, A. (Eds.), *QSAR: Rational Approaches to the Design of Bioactive Compounds*. Elsevier, Amsterdam, 1991, p. 83.
149. Demotes-Mainard, F., Jarry, C, Thomas, J. and Dallet, P., RPHPLC retention data of new 2-amino-2-oxazolines an approach of their lipophilic properties. *J. Liquid Chromatogr.*, 14, 1991, 795-805.
150. Jinno, K. and Yokoyama, Y., Retention prediction for polymer additives in reversed-phase liquid chromatography *J. Chromatogr.*, 550, 1991, 325-334
151. Petrauskas, A. A. and Svedas, V. K., Hydrophobicity of B-lactam antibiotics. Explanation and prediction of their behaviour in various partitioning solvent systems and reversed-phase chromatography. *J. Chromatogr.*, 585, 1991, 3-34.
152. Yamagami, C and Takao, N , Hydrophobicity parameters determined by reversed-phase liquid chromatography. 11. Dependence of retention behaviour of pyrazines on mobile phase composition *Chern. Pharrn.Bull.*, 39, 1991, 1217-1221.
153. Pereira, A. L., Barreiro, E. J. L., Freitas, A. C C, Correa, C J. C, and Gomes, L. N., Investigation of the lipophilicity of antiphlogistic pyrazole derivatives: relationships between log kw and log P values of 5-aryl amino and arylhydrazono-3-methyl-4-nitro-1-phenylpyrazoles. *J. Liquid Chromatogr.*, 14, 1991, 1161-1171.
154. Patel, H. B., King, D N , and Jefferies, T. M., Application of solute and mobile phase partition coefficient to describe solute retention in reversed-phase high-performance liquid chromatography. *J. Chromatogr.*, 555, 1991, 21-31.

155. Tchaplal, A., Colin, A., and Guiochon, G., Linearity of homologous series retention plots in reversed-phase liquid chromatography. *Anal. Chem.*, 56, 1984, 621-625.
156. Timerbaev, A. R., Semenova, O. P., Tsoi, I. G., and Petrukhin, O. M., Correlation analysis in liquid chromatography of metal chelates. Multi-dimensional models in reversed-phase liquid chromatography. *J. Chromatogr.*, 648, 1993, 307-314.
157. Riley, C. M., Tomlinson, E., and Jeffries, T. M., Functional group behaviour in ion pair reversed-phase high-performance liquid chromatography using surface-active pairing ions. *J. Chromatogr.*, 185, 1979, 197-224.
158. Hafkenscheid, T. and Tomlinson, K., Estimation of aqueous solubilities of organic non-electrolytes using liquid chromatographic retention data. *J. Chromatogr.*, 218, 1981, 409-425.
159. Unger, S. H., Cook, J. R., and Hollenberg, J. S., Simple procedure for determining octanol-aqueous partition, distribution, and ionization coefficients by reversed-phase high-pressure liquid chromatography. *J. Pharm. Sci.*, 67, 1978, 1364-1367.
160. Altomare, C., Carotti, A., Cellamare, S., and Ferapoli, M., Lipophilic measurements of benzenesulfonamide inhibitors of carbonic anhydrase by reversed-phase HPLC. *Int. J. Pharm.*, 56, 1989, 273-281.
161. Gago, E., Alvarez-Builla, J., and Elguero, J., Group contributions to hydrophobicity and elution behaviour of pyrene derivatives in reversed-phase high-performance liquid chromatography. *J. Chromatogr.*, 449, 1988, 95-101.
162. Lurie, I. S. and Alirol, A. C., Reversed-phase high-performance liquid chromatographic separation of pentanyl homologues and analogues. Variables affecting hydrophobic group contribution. *J. Chromatogr.*, 292, 1984, 283-294.
163. Smith, R. M., Functional group contributions to the retention of analytes in reversed-phase high-performance liquid chromatography. *J. Chromatogr.*, 656, 1993, 381-415.
164. Smith, R. M. and Burr, C. M., Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. 1. Monosubstituted aromatic compounds. *J. Chromatogr.*, 481, 1989, 71-74.
165. Veronica R. Meyer, *Pitfalls and errors of HPLC in pictures*, 2006, 4-5 Wiley-VCH
166. Rittner, M. and Pragst, F., Screening method for seventy psychoactive drugs or drug metabolites in serum based on high-performance liquid chromatography-electrospray ionization mass spectrometry. *J. Anal. Toxicol.* Mar 2001; 25(2): 115-124

168. Kobayashi,-K and Yamamoto,-T, High-performance liquid chromatography determination of N- and O-demethylase activities of chemicals in human liver microsomes: application of postcolumn fluorescence derivatization using Nash reagent. *Anal-Biochem.* 10 Sep 2000; 284(2): 342-347
169. Buzinkaiova,-T and Polonsky,-J ,Determination of four selective serotonin reuptake inhibitors by capillary isotachophoresis.*Electrophoresis.* Aug 2000; 21(14): 2839-2841
170. Maurer,-HH and Bickeboeller-Friedrich,-J , Screening procedure for detection of antidepressants of the selective serotonin reuptake inhibitor type and their metabolites in urine as part of a modified systematic toxicological analysis procedure using gas chromatography-mass spectrometry *J-Anal-Toxicol.* Jul-Aug 2000; 24(5): 340-347
- 171 Lucca,-A and Gentilini,-G, Simultaneous determination of human plasma levels of four selective serotonin reuptake inhibitors by HPLC *Ther-Drug-Monit.* Jun 2000; 22(3): 271-276
172. Göeringer,-KE and Raymon,-L, Post-mortem forensic toxicology of selective serotonin re-uptake inhibitors: a review of pharmacology and report of 168 cases. *J-Forensic-Sci.* May 2000; 45(3): 633-648
173. Dhake,-AS and Gangwal,Spectrophotometric determination of sertraline hydrochloride in pharmaceutical preparations. *Indian-Drugs.* May 2000; 37(5): 243-245
174. Lacassie,-E and Gaulier,-J-M Methods for the determination of seven selective serotonin reuptake inhibitors and three active metabolites in human serum using high-performance liquid chromatography and gas chromatography. *J-Chromatogr,-B:-Biomed-Appl.* 9 Jun 2000; 742(2): 229-238
175. Lucangioli,-SE and Hermida,-LG,Analysis cis-trans isomers and enantiomers of sertraline by cyclodextrin-modified micellar electrokinetic chromatography. *J-Chromatogr,-A.* 25 Feb 2000; 871(1-2). 207-215
174. Eap,-CB and Bouchoux,-G Simultaneous determination of human plasma levels of citalopram, paroxetine, sertraline, and their metabolites by gas chromatography-mass spectrometry.*J-Chromatogr-Sci.* Jul 1998; 36(7) 365-371
175. Bebawy,-LI and El-Kousy,Spectrophotometric determination of fluoxetine and sertraline using chloranil, 2,3-dichloro-5,6-dicyanobenzoquinone and iodine *J-Pharm-Biomed-Anal.* Oct 1999; 21(1): 133-142
176. Vatassery,-GT,Analysis of sertraline and desmethylsertraline in human plasma and red blood cells. *Clin-Biochem.* Oct 1997; 30(7): 565-568

177. Eap,-CB and Baumann,-P, Analytical methods for the quantitative determination of selective serotonin re-uptake inhibitors for therapeutic drug monitoring purposes in patients.*J-Chromatogr,-B:-Biomed-Appl.* 8 Nov 1996; 686(1): 51-63
178. Patel,-J, HPLC of sertraline and nortriptyline in plasma or serum.*Biomed-Chromatogr.* Nov-Dec 1996; 10(6): 351-354
179. Rogowsky D. and Marr M.,Determination of sertraline and desmethylsertraline in human serum using copolymeric bonded-phase extraction, liquid chromatography and gas chromatography-mass spectrometry. *J-Chromatogr-B,-Biomed-Appl.* 22 Apr 1994; 655(1): 138-141
180. Logan,-BK Analysis of sertraline (Zoloft) and its major metabolite in post-mortem specimens by gas and liquid chromatography.*J-Anal-Toxicol.* May-Jun 1994; 18(3): 139-142
181. WienerH.L. and Kramer H.K., Separation and determination of sertraline and its metabolite, demethylsertraline, in mouse cerebral cortex by reversed-phase high-performance liquid chromatography.*J-Chromatogr-Biomed-Appl.* 18 May 1990; 92(2(J. Chromatogr. 527)): 467-472
- 182.Tremaine L.M., Automated gas-chromatographic - electron-capture assay for the selective serotonin uptake-blocker, sertraline *J-Chromatogr,-Biomed-Appl.* 24 Nov 1989; 88(2 (J. Chromatogr., 496)): 423-429
183. Fouda,-HG Gas-chromatographic - mass-spectrometric analysis and preliminary human pharmacokinetics of sertraline, a new antidepressant drug. *J-Chromatogr,-Biomed-Appl.* 5 Jun 1987; 61(1 (J. Chromatogr., 417)): 197-202
184. Erk N. ,Analysis of binary mixtures of losartan potassium and hydrochlorothiazide by using high-performance liquid chromatography, ratio-derivative spectrophotometric and compensation technique. *J-Pharm-Biomed-Anal.* Feb 2001; 24(4): 603-611
185. Lande NR and Shekhar BM ,Simultaneous spectrophotometric estimation of losartan potassium and hydrochlorothiazide in tablet dosage form.*Indian-Drugs.* Dec 2000; 37(12): 577-581
186. Gonzalez L. and Alonso RM ,High-performance liquid-chromatographic method for screening angiotensin II receptor antagonists in human urine.*Chromatographia.* Dec 2000; 52(11-12): 735-740
187. Carlucci,-G and Palumbo G., Simultaneous determination of losartan and hydrochlorothiazide in tablets by high-performance liquid chromatography.*J-Pharm-Biomed-Anal.* 1 Aug 2000; 23(1): 185-189

188. Jain HK and Singhai AK, Estimation of losartan potassium from tablets. *Indian-Drugs*. May 2000; 37(5): 239-242
189. Argekar, -AP; Sawant, -JG ,A gradient reversed-phase high-performance liquid chromatography method for simultaneous determination of hydrochlorothiazide (HCT) and losartan potassium (LOS) from tablets. *Anal-Lett*. Mar 2000; 33(5): 869-880
190. Williams, -RC and Boucher, -RJ ,Analysis of potassium counter ion and inorganic cation impurities in pharmaceutical drug substances by capillary electrophoresis with conductivity detection. *J-Pharm-Biomed-Anal*. Feb 2000; 22(1): 115-122
191. Kanumula GV and Raman B , Simultaneous determination of hydrochlorothiazide and losartan potassium in pharmaceutical dosage by reverse phase high performance liquid chromatography. *Indian-Drugs*. Jan 2000; 37(1): 38-41
192. Iwasa T. Takano T., Method for the simultaneous determination of losartan and its major metabolite, EXP-3174, in human plasma by liquid chromatography-electrospray ionization tandem mass spectrometry. *J-Chromatogr, -B:-Biomed-Appl*. 12 Nov 1999; 734(2): 325-330
193. Zhao ZX and Wang, -QX Identification of losartan degradates in stressed tablets by LC-MS and LC-MS-MS. *J-Pharm-Biomed-Anal* Jun 1999; 20(1-2): 129-136
194. McCarthy, -K and Wang, -Q ,Determination of losartan and its degradation products in COZAAR tablets by reversed-phase high-performance thin-layer chromatography *J-Pharm-Biomed-Anal*. Aug 1998; 17(4-5): 671-677
195. Soldner, -A and Spahn-Langguth H., A radioreceptor assay for the analysis of AT1-receptor antagonists. Correlation with complementary LC data reveals a potential contribution of active metabolites. *J-Pharm-Biomed-Anal*. May 1998; 17(1): 111-124
196. Soldner, -A and Spahn-Langguth, HPLC assays to simultaneously determine the angiotensin-AT antagonist losartan as well as its main and active metabolite EXP 3174 in biological material of humans and rats. *J-Pharm-Biomed-Anal* Jan 1998; 16(5): 863-873
197. Farthing D., Simple high-performance liquid-chromatographic method for determination of losartan and E 3174 metabolite in human plasma, urine and dialysate. *J-Chromatogr, -B:-Biomed-Appl*. 19 Dec 1997; 704(1-2): 374-378
198. Ritter MA , An improved method for the simultaneous determination of losartan and its major metabolite, EXP 3174, in human plasma and urine by high-performance liquid chromatography with fluorescence detection. *J-Pharm-Biomed-Anal*. Apr 1997, 15(7). 1021-1029

199. Williams RC , Comparison of liquid chromatography, capillary electrophoresis and supercritical-fluid chromatography in the determination of losartan potassium drug substance in Cozaar tablets.*J-Pharm-Biomed-Anal.* Aug 1996; 14(11): 1539-1546
200. Lee,-H ,Simultaneous determination of losartan and active metabolite EXP3174 in rat plasma by HPLC with column switching. *Chromatographia.* Jan 1996; 42(1-2): 39-42
201. Furtak CI, Simultaneous determination of a novel angiotensin II receptor blocking agent, losartan, and its metabolite in human plasma and urine by high-performance liquid chromatography. *J-Chromatogr,-Biomed-Appl.* 17 Jan 1992; 111(2 (J. Chromatogr., 573)): 295-301
202. Wong JW , Simple high-performance liquid chromatographic method for determination of pentoxifylline in human plasma. *J-Chromatogr,-B:-Biomed-Appl.* 25 Sep 1998; 716(1-2). 387-391
203. Sastry,-CSP , Determination of pentoxifylline in pharmaceutical formulations using iodine as oxidizing agent. *Talanta.* Aug 1998; 46(6): 1357-1362
204. DykeTM , Detection and determination of theobromine and caffeine in urine after administration of chocolate-coated peanuts to horses.*J-Anal-Toxicol.* Mar-Apr 1998; 22(2): 112-116
205. Bhoir IC., Separation and estimation of seven vasodilators using packed column supercritical-fluid chromatography *J-Pharm-Biomed-Anal.* Jul 1998; 17(3): 539-546
206. Engelhart DA.,Diltiazem and pentoxifylline determination in postmortem specimens.*J-Anal-Toxicol.* Nov-Dec 1997; 21(7): 576-579
207. Proksa,-B ,Separation of 1-alkyl-3,7-dimethylxanthines by capillary electrophoresis. *Pharmazie.* Jul 1997; 52(7): 510-512
208. Liu ZY, Studies of the release of long-lasting pentoxifylline sustained release tablets.*Yaowu-Fenxi-Zazhi.* 1996; 16(5): 332-333
209. Meyyanathan SN , Spectrophotometric determination of pentoxifylline in its dosage forms.*Indian-Drugs.* Oct 1996; 33(10): 514-516
210. Korman M, Application of micellar electrokinetic chromatography to the quality control of pharmaceutical formulations: the analysis of xanthine derivatives. *Electrophoresis (Weinheim,-Fed-Repub-Ger).* Oct 1994; 15(10): 1304-1309
211. Marko V.,Study of the solid-phase extraction of pentoxifylline [oxpentifylline] and its major metabolite as a basis of their rapid low concentration gas-chromatographic determination in serum.*Biomed-Chromatogr.* Nov 1991; 5(6): 256-261

212. Mancinelli A , Determination of pentoxifylline [oxpentifylline] and its metabolites in human plasma by high-performance liquid chromatography with solid-phase extraction. *J Chromatogr,-Biomed-Appl.* 13 Mar 1992;
213. Bauerova K, Determination of pentoxifylline [oxpentifylline] in serum by high-performance thin-layer chromatography. *J-Pharm-Biomed-Anal.* 1991; 9(3): 247-250
214. Lockemeyer MR., Analysis of pentoxifylline [oxpentifylline] in rabbit plasma using a Hisep high-performance liquid chromatography column. *J-Chromatogr,-Biomed-Appl.* 26 Oct 1990; 97
215. Zarapkar S ., Determination of pentoxifylline [oxpentifylline] in pharmaceutical preparations using gas chromatography. *Indian-Drugs.* Sep 1990; 27(12): 622-624
216. Sadana GS., Quantitative high-performance liquid-chromatographic determination of pentoxifylline [oxpentifylline] in pharmaceutical dosage forms. *Indian-Drugs.* Apr 1990; 27(7): 395-397
217. Sane RT. ,High-performance liquid-chromatographic determination of pentoxifylline [oxpentifylline] in pharmaceuticals. *Indian-Drugs.* Oct 1989; 27(1): 58-60
218. Musch G., Determination of pentoxifylline [oxpentifylline] and its 5-hydroxy-metabolite in human plasma by solid-phase extraction and high-performance liquid chromatography with ultra-violet detection. *J-Chromatogr,-Biomed-Appl.* 27 Oct 1989; 87(J. Chromatogr., 495): 215-226
219. Morton MR., Lack of theophylline assay interference from pentoxifylline [oxypentifylline] and its metabolites. *Ther-Drug-Monit.* May 1989; 11(3): 347-348
220. Lambert WE., Simultaneous determination of pentoxifylline [oxpentifylline] and three metabolites in biological fluids by liquid chromatography. *Clin-Chem* Feb 1989; 35(2): 298-301
221. Grasela DM., High-performance liquid-chromatographic analysis of pentoxifylline [oxpentifylline] and 1-(5-hydroxyhexyl)-3,7-dimethylxanthine in whole blood. *J-Chromatogr,-Biomed-Appl.* 7 Aug 1987, 63
222. Garnier-Moiroux,-A ., High-performance liquid-chromatographic determination of pentoxifylline [oxpentifylline] and its hydroxy-metabolite in human plasma. *J-Chromatogr,-Biomed-Appl* 24 Apr 1987; 60
223. Luke DR., Determination of pentoxifylline [oxpentifylline] and a major metabolite, 3,7-dimethyl-1-(5-hydroxyhexyl)xanthine, by high-performance liquid chromatography. *J-Chromatogr,-Biomed-Appl.* 10 Jan 1986; 47

224. Von-Stetten O Direct measurement of pentoxifylline [oxpentifylline] and its hydroxy-metabolite from plasma using HPLC. with column-switching techniques. *Chromatographia*. 1984; 19:415-417
225. Bauza MT ., Gas-chromatographic determination of pentoxifylline [oxpentifylline] and its major metabolites in human breast milk. *J-Chromatogr,-Biomed-Appl*. 14 Sep 1984; 35
226. Chivers DA ., Simultaneous determination of pentoxifylline and its hydroxy-metabolite in plasma by high-performance liquid chromatography. *J-Chromatogr,-Biomed-Appl*. 1981; 14
227. Moustafa A., Spectrophotometric for the determination of lansoprazole and pantoprazole sodium sesquihydrate. *J-Pharm-Biomed-Anal*. Feb 2000; 22(1): 45-58
228. Ekpe A ., Effect of various salts on the stability of lansoprazole, omeprazole, and pantoprazole as determined by high-performance liquid chromatography. *Drug-Dev-Ind-Pharm*. Sep 1999; 25(9): 1057-1065
229. Tivesten A., Nonaqueous capillary electrophoresis for the analysis of labile pharmaceutical compounds. *Chromatographia*. 1999; 49(Suppl. I): S7-S11
- 230 Masubuchi N ., Stereoselective chiral inversion of pantoprazole enantiomers after separate doses to rats *Chirality*. 1998; 10(8): 747-753
231. Eberle D., Chiral resolution of pantoprazole sodium and related sulfoxides by complex formation with bovine serum albumin in capillary electrophoresis. *J-Chromatogr,-A*. 24 Jan 1997; 759(1-2): 185-192
232. Tanaka M ., Direct determination of pantoprazole enantiomers in human serum by reversed-phase high-performance liquid chromatography using a cellulose-based chiral stationary phase and column-switching system as a sample clean up procedure. *Anal-Chem*. 1 May 1996; 68(9): 1513-1516
233. Tanaka M., Direct HPLC separation of enantiomers of pantoprazole and other benzimidazole sulfoxides using cellulose-based chiral stationary phases in reversed-phase mode *Chirality*. 1995; 7(8): 612-615
234. Balmer K., Stereoselective effects in the separation of enantiomers of omeprazole and other substituted benzimidazoles on different chiral stationary phases. *J-Chromatogr-A*. 4 Feb 1994; 660(1-2): 269-273
235. Kaskhedikar SG., Simultaneous estimation of bromhexine hydrochloride and cephalixin in capsule by high performance liquid chromatography. *Indian-Drugs*. Mar 2001, 38(3): 137-139

236. Tsai TH., Simultaneous blood and brain sampling of cephalixin in the rat by microdialysis and microbore liquid chromatography: application to pharmacokinetics studies. *J-Chromatogr,-B:-Biomed-Appl.* 14 Apr 2000; 740(2): 203-209
237. Ming JL., High-performance liquid-chromatographic determination of cefalexin capsules. *Yaowu-Fenxi-Zazhi.* 31 Mar 2000; 20(2): 130-131
238. Wu, -ZJ ., Studies on the simultaneous measurement of several cephalosporins by reversed-phase HPLC. *Sepu.* Nov 1999; 17(6): 518-521
239. Cheng FG., Determination of cephalixin by isotachophoresis. *Yaowu-Fenxi-Zazhi.* 30 Sep 1999; 19(5): 328-330
240. Wang, -WH Rapid determination of cephalixin in cephalixin capsules by HPLC. *Fenxi-Ceshi-Xuebao.* 25 Jul 1999; 18(4): 81-82
241. Coran SA., Development of a densitometric method for the determination of cephalixin as an alternative to the standard HPLC procedure *J-Pharm-Biomed-Anal.* Oct 1998; 18(1-2): 271-274
242. Li YM., Micellar electrokinetic capillary chromatography for the separation of cefalexin and its related substances. *Electrophoresis.* Jan 1999; 20(1): 127-131
243. Yang, -TM., Determination of cephalixin by potassium bromate dead-stop titrimetry. *Yaowu-Fenxi-Zazhi.* 1998; 18(6): 404-405
244. Shabadi CV., Simultaneous determination of cefadroxil and cephalixin in pharmaceutical preparations by quantitative TLC *Indian-Drugs.* Dec 1998, 35(12): 766-770
245. Trajkovic-Jolevska S ., Derivative spectrophotometric assay of cephalixin in the presence of potassium sorbate. *Anal-Lab.* Sep 1998, 7(3): 148-151
246. Gallo-Martinez L., A new derivatization procedure for the determination of cephalixin with 1,2-naphthoquinone 4-sulfonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection. *Anal-Chim-Acta.* 7 Sep 1998; 370(2-3): 115-123
247. Li HK., Spectrophotometric determination of cephalixin. *Fenxi-Huaxue.* Aug 1998; 26(8): 1011-1013
248. Agbaba D ., HPTLC assay of cephalixin and cefaclor in pharmaceuticals. *Biomed-Chromatogr.* May-Jun 1998; 12(3): 133-135
249. Halkar UP ., Simultaneous determination of cephalixin and probenecid in pharmaceutical preparations by HPTLC. *Indian-Drugs* Jun 1998; 35(6): 382-383

250. Zhou MH., High-performance liquid-chromatographic determination of cefalexin. *Yaowu-Fenxi-Zazhi*. 1997; 17(6). 407-408
251. Farag SA ., Simultaneous liquid-chromatographic analysis of the beta-lactam antibiotics cefazolin, cefadroxil, cephalixin, ampicillin, and cephradine in solution. *J-AOAC-Int. Mar-Apr* 1998; 81(2): 381-385
252. Pecavar A., A reversed-phase high-performance liquid chromatographic method for determination of cephalixin in human plasma. *J-High-Resolut-Chromatogr.* Dec 1997; 20(12): 674-678
253. Wang Z., Separation of drugs cephalixin, ampicillin, and their biosynthetic precursors L-Phe-L-Cys-D-Val and D-Phe-L-Cys-D-Val by capillary zone electrophoresis. *Sepu.* Sep 1997; 15(5): 378-380
254. Halkar UP., Simultaneous determination of cephalixin and probenecid in pharmaceutical preparations by reversed phase HPLC. *Indian-Drugs.* Sep 1997; 34(9): 539-541
255. Erceg M, Study of cephalixin and cefaclor adsorption at the mercury/solution interface by a.c. polarography. *Microchem-J.* Sep 1997; 57(1): 73-80
256. Shinde VM ., Simultaneous determination of cefadroxil and cephalixin from capsules by reverse phase HPLC. *Indian-Drugs.* Jul 1997; 34(7) 399-402
257. Campins-Falco P., Comparative study on the determination of cephalixin in its dosage forms by spectrophotometry and HPLC with UV-vis detection. *Mikrochim-Acta.* 1997; 126(3-4): 207-215
258. Agbaba D., Spectrophotometric determination of certain cephalosporins using ferrihydroxamate method. *Spectrosc-Lett.* Mar 1997, 30(2): 309-319
259. Argekar AP , Simultaneous determination of cephalixin and carbocisteine from capsules by reverse-phase high-performance liquid chromatography (RP-HPLC). *Anal-Lett.* Feb 1997; 30(4): 821-831
260. Hsu MC., Liquid-chromatographic determination of cephalixin preparations: inter-laboratory validation. *J-Chromatogr, -A.* 15 Mar 1996; 727(2). 239-244
261. Yang JH., Simultaneous determination of cephalixin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method. *Anal-Chim-Acta.* 30 May 1996; 325(3): 195-200
262. Sun FS , Direct assay of cephalixin in human plasma by high-performance capillary zone electrophoresis. *Sepu.* Mar 1996, 14(2): 132-133

263. Hsu MC., High-performance liquid-chromatographic method for potency determination of cephalexin in commercial preparations and for stability studies. *J-Chromatogr-A*. 10 Feb 1995; 692(1-2): 67-72
264. Lu R ., Simultaneous determination of trimethoprim and cephalexin in compound cephalexin preparations by reversed-phase high-performance liquid chromatography. *Yaowu-Fenxi-Zazhi*. Jul 1993; 13(4): 256-257
265. Sun N ., Quantitative determination of cephalexin capsules by polarimetry. *Zhongguo-Yiyuan-Yaoxue-Zazhi*. Mar 1993; 13(3): 122-123
266. Hendrix C., Quantitative analysis of cephalexin by liquid chromatography on poly(styrene - divinylbenzene). *J-Liq-Chromatogr*. Jan 1993; 16(2): 421-445
267. Meng L., Determination of trimethoprim in compound cephalexin capsules by differential spectrophotometry. *Yaowu-Fenxi-Zazhi*. Jul 1992; 12(4): 231-232
268. Dong L., Dual-wavelength spectrophotometry for simultaneous determination of cephalexin and trimethoprim in capsule preparation. *Zhongguo-Yiyao-Gongye-Zazhi*. Jan 1993; 24(1): 28-30
269. Patel IT ., Spectrophotometric method for determination of cephalexin in its dosage forms. *J-AOAC-Int* Nov-Dec 1992, 75(6): 994-998
270. Alwarthan A., Spectrophotometric determination of cephalexin in dosage forms with imidazole reagent. *Talanta* Jun 1992; 39(6): 703-707
271. Zhao Y., Quantitative determination of cephalexin by high-performance liquid chromatography. *Sepu*. May 1992; 10(3): 183-184
272. Wen L., Determination of compound cephalexin capsules by tri-wavelength UV spectrophotometry. *Zhongguo-Yiyao-Gongye-Zazhi*. 1991; 22(5): 216-218
273. Kovach PM., High-performance liquid-chromatographic determination of loracarbef, a potential metabolite, cefaclor and cephalexin in human plasma, serum and urine. *J-Chromatogr,-Biomed-Appl*. 14 Jun 1991; 105(1(J. Chromatogr., 567)): 129-139
274. Lee YJ., Simultaneous determination of cefoxitin, cefuroxime, cephalexin and cephaloridine in plasma using HPLC and a column-switching technique. *Chromatographia*. Jul 1990; 30(1-2): 80-84
275. Murillo JA ., Determination of amoxycillin and cephalexin in mixtures by second-derivative spectrophotometry. *Analyst (London)*. Aug 1990; 115(8): 1117-1119
276. Izquierdo P ., Simultaneous determination of cephradine and cephalexin in serum by derivative synchronous fluorescence spectroscopy. *Anal-Lett*. Mar 1990; 23(3): 487-505

277. Abdel-Gawad FM., Spectrophotometric determination of cefadroxil and cephalixin with ammonium vanadate. *Egypt-J-Pharm-Sci.* 1988; 29(1-4): 63-70
- 278 . Hikida K., Determination of cephalixin in human plasma and rabbit serum by automated column-switching HPLC. *Bunseki-Kagaku.* Mar 1989; 38(3): 135-139
279. EmmTA., High-performance liquid-chromatographic assay of cephalixin in serum and urine. *J-Chromatogr,-Biomed-Appl.* 13 May 1988; 71
280. Rouan MC., Micro-bore liquid-chromatographic determination of cefadroxil and cephalixin in plasma with large-volume injection. *J-Chromatogr,-Biomed-Appl.* 29 Apr 1988; 70(2) 335-344
281. Najib NM., High-performance liquid-chromatographic analysis of cephalixin in serum and urine. *J-Clin-Pharm-Ther.* 1987; 12(6): 419-426
282. Marincel J, Comparison between HPLC and microbiological methods in assays of cephalixin in samples. *Acta-Pharm-Jugosl.* 1988; 38(1): 35-45
283. Issopoulou PB., Analytical investigations of beta-lactam antibiotics in pharmaceutical preparations. I. Spectrophotometric determination of cephalixin, cephradine, ampicillin and amoxycillin using paramolybdate anion. *J-Pharm-Biomed-Anal.* 1988; 6(3): 321-327
284. Morelli B., First- and second-derivative spectrophotometric assay of mixtures of cefuroxime and cephalixin. *J-Pharm-Biomed-Anal.* 1988; 6(2): 199-209
285. Das Gupta V., Quantitation of cephalixin in pharmaceutical dosage forms using high-performance liquid chromatography. *Drug-Dev-Ind-Pharm.* 1987; 13(12): 2231-2238
286. Issopoulou PB., Analytical investigations of beta-lactam antibiotics in pharmaceutical preparations. I. Spectrophotometric determination of cephalixin, cephradine, ampicillin and amoxycillin using paramolybdate anion. *J-Pharm-Biomed-Anal.* 1988; 6(1): 97-101
287. McAteer JA., Liquid-chromatographic determination of five orally active cephalosporins, cefixime, cefaclor, cefadroxil, cephalixin and cephradine, in human serum. *Clin-Chem (Winston-Salem, NC).* Oct 1987; 33(10): 1788-1790
288. Kovacic-Bosnjak N., Reversed-phase HPLC separation of DELTA.2- and DELTA.3-isomers of 7-ADCA [7-aminodeacetoxycephalosporanic acid] and cephalixin monohydrate. *Chromatographia.* May 1987; 23(5): 350-354
289. Shingbal DM., Spectrophotometric analysis of cephalixin and its dosage forms *Indian-Drugs.* Apr 1987; 24(7): 367-368

290. Emmanuel J ., Simple and accurate spectrophotometric method for the quantitative estimation of cephalixin and its dosage forms. *Indian-Drugs*. Apr 1987; 24(7): 357-358
291. Kennedy JH .,Investigation of perchlorate, phosphate and ion-pairing eluent modifiers for the separation of cephalosporin epimers. *J-Chromatogr*. 13 Mar 1987; 389(2): 369-377
292. Hernandez-Mendez J.,Differential pulse polarographic determination of cephalixin based on the catalytic pre-wave of nickel(II). *Anal-Chim-Acta*. 1 Jun 1984; 160335-340
293. Miyazaki K., Determination of ampicillin, amoxycillin, cephalixin and cephradine in plasma by high-performance liquid chromatography using fluorimetric detection. *J-Chromatogr*. 9 Sep 1983; 276(2): 478-482
294. Mori I ., Spectrophotometric determination of cephalixin and ampicillin using o-hydroxyquinolphthalein and palladium(II). *Chem-Pharm-Bull*. 1982; 30(7): 2599-2603
295. Lecaillon JB, Determination of cefsulodin, cefotiam, cephalixin, cefotaxime, deacetylcefotaxime, defuroxime and cefroxadin in plasma and urine by high-performance liquid chromatography. *J-Chromatogr,-Biomed-Appl*. 1982; 17((J. Chromatogr. 228)): 257-267
296. Nunez-Vergara LJ.,Polarography of an acidic degradation product from cephalixin *Talanta*. 1982; 29(2): 137-138
297. Tsutsumi K., Determination of serum cephalixin by high-performance liquid chromatography.*Anal-Lett*. 1981; 14(B20). 1735-1743
298. Takagishi Y.,High-performance liquid-chromatographic assay of cephalixin in biological fluid. *Yakugaku-Zasshi*. 1981; 101(9): 843-847
299. Nahata MC ., High-performance liquid-chromatographic determination of cephalixin in human plasma, urine and saliva. *J-Chromatogr,-Biomed-Appl*. 1981; 14(2): 532-538
300. Nahata MC., Simultaneous determination of cephalixin and lysine in their salt using high-performance liquid chromatography of derivatives *J-Pharm-Sci*. 1980; 69(12): 1378-1380
301. Mangia A., Quantitative determination of cephalixin by proton magnetic resonance spectroscopy. *J-Pharm-Pharmacol* 1980; 32(11): 798-799
302. Matousova O., Fluorimetric determination of cephalixin *Cesk-Farm* 1980; 29(5): 121-124

303. Quercia V , Application of high-pressure liquid chromatography to cephalosporin analysis. *Boll-Chim-Farm.* 1979; 118(6): 308-315
304. Matousova O., Spectrophotometric determination of cephalixin *Cesk-Farm.* 1979; 28(9-10): 382-383
- 305 Fogg AG., Differential pulse-polarographic determination of cephalixin after hydrolysis in neutral phosphate buffer. *J-Pharm-Pharmacol.* 1980; 32(4): 302-303
306. Fogg,-AG Differential pulse polarographic study of the degradation of cephalixin. Determination of hydrogen sulphide and other degradation products *Anal-Chim-Acta.* 1979; 110(1): 107-115