

REFERENCES

- Altria, K. D. (2000a). Background theory and applications of microemulsion electrokinetic chromatography. *J. Chromatogr. A*, 892, 171-186.
- Altria, K. D., Clark, B. J., and Mahuzier, P. -E. (2000b). The effect of operating variables in microemulsion electrokinetic capillary chromatography. *Chromatographia*, 52, 758-768.
- Andrea, W., and Brown, P. R. (1997). *HPLC and CE: Principles and Practice*. San Diego: Academic Press, pp. 138, 154-164.
- AOAC Peer Verified methods Program. (1993). *Manual on Policies and Procedures*, Arlington: VA.
- Buchberger, W. W. (2000). Detection techniques in ion analysis: what are our choices? *J. Chromatogr. A*, 884, 3-22.
- Burg, R. W., Miller, B. M., Baker, E. E., Birnbaum, J., Currie, S. A., Hartman, R., Kong, Y. L., Monaghan, R. L., Olson, G., Putter, I., Tunac, J. B., Wallick, H., Stapley, E. O., Oiwa, R., and Omura, S. (1979). Avermectins, new family of potent anthelmintic agents: Producing organism and fermentation. *Antimicrob. Agents Chemother.*, 15, 361-367.
- Brewer, B. N., Armbrust, K. L., Mead, K. T., and Holmes, W. E. (2004). Determination of abamectin in soil samples using high-performance liquid chromatography with tandem mass spectrometry. *Rapid Commun. Mass Spectrom.*, 18, 1693-1696.
- Campbell, W. C., Fisher, M. H., Stapley, E. O., Albers-Schönberg, G., and Jacobs, T. A. (1983). Ivermectin: a potent new antiparasitic agent. *Science*, 221, 823-825.
- Campbell, W. C. (1989). *Ivermectin and Abamectin*. New York: Spring-Verlag, pp.1-20, 288-305.
- Chang, R. (2005). *Chemistry*. 8th ed. New York: McGraw-Hill, p. 681.
- Chankvetadze, B. (1997). *Capillary Electrophoresis in Chiral Analysis*. Chichester: John Wiley and Sons, pp. 5-72.
- Chou H. K., Lai C. Y., Chen T. H., and Yen G. C. (2004). A multiresidue method for the determination of abamectin, doramectin, moxidectin, ivermectin, milbemectin A(3), and milbemectin A(4) residues in bovine muscle using HPLC with fluorescence detection. *J. Food Drug Anal.*, 12, 146-153.

- Cobin, J. A., and Johnson, N. A. (1995). Liquid chromatographic method for rapid determination of total avermectin B₁ and 8,9-Z-avermectin B₁ residues in apples. *J. AOAC Int.*, 78, 419-423.
- Cobin, J. A., and Johnson, N. A. (1996a). Liquid chromatographic method for rapid determination of total avermectin B₁ and 8,9-Z-avermectin B₁ residues in hops. *J. AOAC Int.*, 79, 503-507.
- Cobin, J. A., and Johnson, N. A. (1996b). Determination of avermectin B₁ and 8,9-Z-avermectin B₁ residues in wine by liquid chromatography. *J. AOAC Int.*, 79, 1158-1161.
- Diserens, H., and Henzelin, M. (1999). Determination of abamectin residues in fruits and vegetables by high-performance liquid chromatography. *J. Chromatogr. A*, 833, 13-18.
- Fogarty, B., Dempsey, E., and Regan, F. (2003). Potential of microemulsion electrokinetic chromatography for the separation of priority endocrine disrupting compounds. *J. Chromatogr. A*, 1014, 129-139.
- Foret, F., Krivankova, L., and Boček, P. (1993). *Capillary Zone Electrophoresis.*, Weinheim: Wiley-VCH, pp. 1-14.
- Fu, X., Lu, J., and Zhu, (1996). A. Microemulsion electrokinetic chromatographic separation of antipyretic analgesic ingredients. *J. Chromatogr. A*, 735, 353-356.
- Grossman, P. D., and Colburn, J. C. (1992). *Capillary Electrophoresis: Theory and Practice*. San Diego: Academic Press, pp. 14-176.
- He J. H., Hou X. L., Jiang H. Y., and Shen J. Z. (2005). Multiresidue analysis of avermectins in bovine liver by immunoaffinity column cleanup procedure and liquid chromatography with fluorescence detector. *J. AOAC. Int.*, 88, 1099-1103.
- Heiger, D. N., Kaltenbach, P., and Sievert, H. J. P. (1994). Diode array detection in capillary electrophoresis. *Electrophoresis*, 15, 1234-1247.
- Hilder, E. F., Klampfl, C. W., Buchberger, W., and Haddad, P. R. (2001). Separation of hydrophobic polymer additives by microemulsion electrokinetic chromatography. *J. Chromatogr. A*, 922, 293-302.
- Horwitz, W. (1982). Evaluation of analytical methods used for regulation of foods and drugs. *Anal. Chem.*, 54, 67A-76A.
- Jungmanotham, P., and Soonthrontantikul, W. (2004). Capillary electrophoresis for determination of capsaicin and dihydrocapsaicin. *Senior project*, Department of Chemistry, Faculty of Science, Chulalongkorn University.

- Khaledi, M. G. (1998). *High Performance Capillary Electrophoresis: Theory, Technique and Applications*. New York: John Wiley and Sons, pp. 3-5, 35-38, 58, 77-87, 113-115, 142-157, 330-401.
- Li, S. F. Y. (1992). *Capillary Electrophoresis: Principles, Practice and Applications*. Amsterdam: Elsevier Science Publishers B. V., pp. 158-171.
- Marsh A., Clark, B. J., and Altria, K. D. (2005). A review of the background, operating parameters and applications of microemulsion liquid chromatography (MELC). *J. Sep. Sci.*, 28, 2023-2032.
- Mayer, B. X. (2001). How to increase precision in capillary electrophoresis. *J. Chromatogr. A*, 907, 21-37.
- Miller, J. N., and Miller, J. C. (2000). *Statistics and Chemometrics for Analytical Chemistry*. 4th ed. Dorset: Prentice Hall, pp. 42-70, 77-78.
- Miola, M. F., Snowden, M. J., and Altria, K. D. (1998). The use of microemulsion electrokinetic chromatography in pharmaceutical analysis. *J. Pharm. Biomed. Anal.*, 18, 785-797.
- Nhujak, T., Saisuwan, W., Srisa-art, M., and Petsom, A. (2006). Capillary electrophoresis for quantitative analysis of curcuminoids. *J. Sep. Sci., In Press*.
- Pedersen-Bjergaard, S., Næss, Ø., Moestue, S., and Rasmussen, K. E., (2000). Microemulsion electrokinetic chromatography in suppressed electroosmotic flow environment: Separation of fat-soluble vitamins. *J. Chromatogr. A*, 867, 201-211.
- Pereira, T., and Chang, S. W. (2004). Semi-automated quantification of ivermectin in rat and human plasma using protein precipitation and filtration with liquid chromatography/tandem mass spectrometry. *Rapid Commun. Mass Spectrom.*, 18, 1265-1276.
- Pomponio, R., Gotti, R., Luppi, B., and Cavrini, V. (2003). Microemulsion electrokinetic chromatography for the analysis of green tea catechins: Effect of the cosurfactant on the separation selectivity. *Electrophoresis*, 24, 1658-1667.
- Prabhu, S. V., Varsolona, R. J., Wehner, T. A., and Tway, P. C. (1992). Rapid and sensitive high-performance liquid chromatographic method for the quantitation of abamectin and its delta 8,9 isomer. *J. Agric. Food Chem.*, 40, 622-625.
- Quirino, J. P., and Terabe, S. (1999). Electrokinetic chromatography. *J. Chromatogr. A*, 856, 465-482.

- Sherri, B. T., José, E. R., Wendy, C. A., and Laura, R. K. (2005). Analysis of avermectin and moxidectin residues in milk by liquid chromatography–tandem mass spectrometry using an atmospheric pressure chemical ionization/atmospheric pressure photoionization source. *Anal. Chim. Acta*, 529, 159-165.
- Shoop, W. L., Mrozik, H., and Fisher, M. H. (1995). Structure and activity of avermectins and milbemycins in animal health. *Vet. Parasitol.*, 59, 139-156.
- Song, L., Ou, Q., Yu, W., and Li, G. (1995). Separation of six phenylureas and chlorsulfuron standards by micellar, mixed micellar and microemulsion electrokinetic chromatography. *J. Chromatogr. A*, 699, 371-382.
- Suzuki S., and Honda S. (1998). A tabulated review of capillary electrophoresis of carbohydrates. *Electrophoresis*, 19, 2539-2560.
- Terabe, S., Otsuka, K., and Ando, T. (1985). Electrokinetic chromatography with micellar solution and open-tubular capillary. *Anal. Chem.*, 57, 834-841.
- Terabe, S., Otsuka, K., and Ando, T. (1989). Band broadening in electrokinetic chromatography with micellar solutions and open-tubular capillaries. *Anal. Chem.*, 61, 251-260.
- Terabe, S., and Matsubara, N. (1992). Microemulsion electrokinetic chromatography: Comparison with micellar electrokinetic chromatography. *J. Chromatogr.*, 608, 23-29.
- Valenzuela, A. I., Redondo, M. J., Pico, Y., and Font, G. (2000). Determination of abamectin in citrus fruits by liquid chromatography-electrospray ionization mass spectrometry. *J. Chromatogr. A*, 871, 57-65.
- Vercruyse, J., and Rew, R. S. (2002). *Macrocyclic Lactones in Antiparasitic Therapy*. Wallingford: CABI Publishing, pp. 1-55.
- Watarai, H. (1991). Microemulsion electrokinetic chromatography. *Chem. Lett.*, 391-394.

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