

## 伍、參考文獻

- [1] 行政院環境保護署, <http://www.epa.gov.tw/>
- [2] 勞工安全衛生研究所, <http://www.iosh.gov.tw/index.html>
- [3] J. Tria, E. C. V. Butler, P. R. Haddad, A. R. Bowie, Determination of aluminium in natural water samples, *Anal. Chim. Acta*, **2007**, 588, 153-165.
- [4] G. Sposito, The environmental chemistry of aluminum ,2nd edition, Lewis, USA., **1995**.
- [5] C. T. Driscoll, J. P. Baker, J. J. Bisogni, C. L. Schofield, Effect of aluminum speciation on fish in dilute and acidified waters, *Nature*, **1980**, 284, 161-164.
- [6] L. Levesque, C. A. Mizzen, D. R. McLachlan, P. E. Fraser, Ligand specific effects on aluminum incorporation and toxicity in neurons and astrocytes, *Brain Res.*, **2000**, 877, 191-202.
- [7] J. L. Greger, J. E. Sutherland, Aluminum exposure and metabolism, *Crit. Rev. Clin. Lab. Sci.*, 1997, 34, 439-474.
- [8] M. Yasui, T. Kihira, K. Ota, Calcium, magnesium and aluminum concentrations in Parkinson's disease, *Neuro Toxicology*, **1992**, 13, 593-600.
- [9] M. D. Zapatero, A. G. Dejalón, F. Pascual, M. L. Calvo, J. Escanero, A. Marro, Serum aluminum levels in Alzheimer's disease and other senile dementias, *Biol. Trace Elem. Res.*, **1995**, 47, 235-240.
- [10] K. J. Orians, K. W. Bruland, The biochemistry of aluminum in the Pacific Ocean, *Earth Planet. Sci. Lett.* **1986**, 78, 397-410.
- [11] S. B. Erdemoglu, K. Pyrzyńska, S. Gücer, Speciation of aluminum in tea infusion by ion-exchange resins and flame AAS detection, *Anal. Chim. Acta*, **2000**, 411, 81-89.

- [12] L.B. Xia, B. Hu, Z. C. Jiang, Y. L. Wu, L. Li, R. Chen, 8-Hydroxyquinoline–chloroform single drop microextraction and electrothermal vaporization ICP-MS for the fractionation of aluminium in natural waters and drinks, *J. Anal. Atom. Spect.*, **2005**, *20*, 441-446.
- [13] D. E. Mulcahy, C. W. K. Chow, S. D. Thomas, D. E. Davey, M. Drikas, Development of an on-line electrochemical analyser for trace level aluminium, *Anal. Chim. Acta*, **2003**, *499*, 173-181.
- [14] S. Bi, J. Liu, X. Wang, G. Chen, N. Gan, Speciation of aluminum in natural waters using differential puls voltammetry with a pyrocatechol violet-modified electrode, *Analyst*, **2001**, *126*, 1404-1408.
- [15] J. Liu, S. Bi, L. Yang, X. Gu, P. Ma, N. Gan, X. Wang, Speciation of aluminum in natural waters and biological fluids by complexing with various catechols followed by differential puls voltammetry detection, *Analyst*, **2002**, *127*, 1657-1665.
- [16] H. Z. Lian, W. F. Kang, S. P. Bi, Y. Arkin, D. L. Shao, D. Li, Y. J. Chen, L. M. Dai, N. Gan, L. C. Tian, Direct determination of trace aluminum with quercetin by reversed-phase high performance liquid chromatography, *Talanta*, **2004**, *62*, 43-50.
- [17] M. J. Ahmed, J. Hossan, Spectrophotometric determination of aluminium by morin, *Talanta*, **1995**, *42*, 1135-1142.
- [18] G. Wauer, H. J. Keckemann, R. Koschel, Analysis of toxic aluminium species in natural waters, *Microchim. Acta*, **2004**, *146*, 149-154.
- [19] M. Valencia, S. Boudra, J. B. Sendra, Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, *Anal. Chim. Acta*, **1996**, *327*, 73-82.

- [20] J. Wu, C. Y. Zhou, H. Chi, M. K. Wong, H. K. Lee, H. Y. Ong, C. N. Ong, Kinetic differentiation mode chromatography using 8-quinolinol and fluorimetric detection for sensitive determination of aluminum adhering to the gastric mucosa, *J. Chromatogr. B*, **1995**, *663*, 247-253.
- [21] A. Alonso, M. J. Almendral, M. J. Porras, Y. Curto, C. Garcia de Maria, Flow-injection solvent extraction with and without phase separation fluorimetric determination of aluminium in water, *Anal. Chim. Acta*, **2001**, *447*, 211-217.
- [22] W. G. Scribner, W. J. Treat, J. D. Weis, R. W. Moshier, Solvent extraction of metal ions with trifluoroacetylacetone, *Anal. Chem.*, **1965**, *37*, 1136-1142.
- [23] F. M. Zado, R. S. Juvet, A new selective-nonselective flame photometric detector for gas chromatography, *Anal. Chem.*, **1966**, *38*, 569-573.
- [24] K. Tanikawa, K. Hirano, K. Arakawa, Gas chromatographic analysis of metal trifluoroacetylacetonates, *Chem. Pharm. Bull*, **1967**, *7*, 915-920.
- [25] C. I. Measures, J. M. Edmond, Shipboard determination of aluminum in seawater at the nanomolar level by electron capture detection gas chromatography, *Anal. Chem.*, **1989**, *61*, 544-547.
- [26] J. E. Schwarberg, R. W. Moshier, J. H. Walsh, Comparison of electron capture and hydrogen flame detectors for gas chromatographic determination of trace amounts of metal chelates, *Anal. Chem.*, **1964**, *36*, 2034-2035.
- [27] R. E. Sievers, B. W. Ponder, M. L. Morris, R. W. Moshier, Gas phase chromatography of metal chelates of acetylacetone, trifluoroacetylacetone, and hexafluoroacetylacetone, *Inorg. Chem.*, **1963**, *2*, 693-698.

- [28] G. P. Morie, T. R. Sweet, Analysis of mixtures of aluminum, gallium, and indium by solvent extraction and gas chromatography, *Anal. Chem.*, **1965**, *37*, 1552-1555.
- [29] W. D. Ross, Detection of metal chelates in gas liquid chromatography by electron capture, *Anal. Chem.*, **1963**, *35*, 1596-1598.
- [30] H. Liu, P.K. Dasgupta, Analytical chemistry in a drop. Solvent extraction in a microdrop, *Anal. Chem.*, **1996**, *68*, 1817-1821.
- [31] M.A. Jeannot, F.F. Cantwell, Solvent microextraction into a single drop, *Anal. Chem.*, **1996**, *68*, 2236-2240.
- [32] M.A. Jeannot, F.F. Cantwell, Mass transfer characteristics of solvent extraction into a single drop at the tip of a syringe needle, *Anal. Chem.* **1997**, *69*, 235-239.
- [33] Y. He, H.K. Lee, Liquid-phase microextraction in a single drop of organic solvent by using a conventional microsyringe, *Anal. Chem.* **1997**, *69*, 4634-4640.
- [34] M. Ma, F. F. Cantwell, Solvent microextraction with simultaneous back-extraction for sample cleanup and preconcentration: quantitative extraction, *Anal. Chem.*, **1998**, *70*, 3912-3919
- [35] M. Ma, F.F. Cantwell, Solvent microextraction with simultaneous back-extraction for sample cleanup and preconcentration: Preconcentration into a single microdrop, *Anal. Chem.*, **1999**, *71*, 388-393.
- [36] S. P. Bjergaard, K. E. Rasmussen, Liquid-liquid-liquid microextraction for sample preparation of biological fluids prior to capillary electrophoresis, *Anal. Chem.*, **1999**, *71*, 2650-2656.
- [37] H. G. Uglund, M. Krogh, K. E. Rasmussen, Liquid-phase microextraction as a sample preparation technique prior to capillary gas chromatographic-determination of benzodiazepines in

- biological matrices, *J. Chromatogr. B*, **2000**, 749, 85-92.
- [38] K. E. Rasmussen, S. Pedersen-Bjergaard, M. Krogh, H. G. Uglund, T. Gronhaug, Development of a simple in-vial liquid-phase microextraction device for drug analysis compatible with capillary gas chromatography, capillary electrophoresis and high-performance liquid chromatography, *J. Chromatogr. A*, **2000**, 873, 3-11.
- [39] S. Andersen, T. G. Halvorsen, S. Pedersen-Bjergaard, K. E. Rasmussen, Liquid-phase microextraction combined with capillary electrophoresis, a promising tool for the determination of chiral drugs in biological matrices, *J. Chromatogr. A*, **2002**, 963, 303–312.
- [40] W. Liu, H. K. Lee, Continuous-flow microextraction exceeding 1000-fold concentration of dilute analytes, *Anal. Chem.*, **2000**, 72, 4462-4467.
- [41] H. K. Lee, G. Shen, Hollow fiber-protected liquid-phase microextraction of triazine herbicides, *Anal. Chem.*, **2002**, 74, 648-654.
- [42] H. F. Wu, J. H. Yen, C. C. Chin, Combining drop-to-drop solvent microextraction with gas chromatography/mass spectrometry using electronic ionization and self-ion/molecule reaction method to determine methoxyacetophenone isomers in one drop of water, *Anal. Chem.*, **2006**, 78, 1707-1712.
- [43] L. L. Qian, Y. Z. He, Funnel-form single-drop microextraction for gas chromatography–electron-capture detection, *J. Chromatogr. A*, **2006**, 1134, 32-37.
- [44] A. Canals, L. Vidal, C. E. Domini, N. Grane, Microwave-assisted headspace single-drop microextraction of chlorobenzenes from water samples, *Anal. Chim. Acta*, **2007**, 592, 9-15.

- [45] Y. Wu, L. Xia, R. Chen, B. Hu, Headspace single drop microextraction combined with HPLC for the determination of trace polycyclic aromatic hydrocarbons in environmental samples, *Talanta*, **2008**, *74*, 470-477.
- [46] E. Psillakis, N. Kalogerakis, Developments in single-drop microextraction, *Trends in Anal. Chem.*, **2002**, *21*, 53-63.
- [47] T. S. Ho, S. Pedersen-Bjergaard, K. E. Rasmussen, Recovery, enrichment and selectivity in liquid-phase microextraction: Comparison with conventional liquid-liquid extraction, *J. Chromatogr. A*, **2002**, *963*, 3-17.
- [48] L. Hou, H. K. Lee, Dynamic three-phase microextraction as a sample preparation technique prior to capillary electrophoresis, *Anal. Chem.*, **2003**, *75*, 2784-2789
- [49] E. Psillakis, N. Kalogerakis, Extraction of thiodiglycol from soil using pressurised liquid extraction, *J. Chromatogr. A*, **2001**, *907*, 211-219.
- [50] L.S. Jager, A.R.J. Andrews, Solvent microextraction of chlorinated pesticides, *Chromatographia*, **1999**, *50*, 733-738.
- [51] D. R. Baghurst, D. M. P. Mingos, Progress in microwave-organic reaction enhancement chemistry, *J. Org. Chem.*, **1990**, 384, C57-C60.
- [52] G. Shen, H. K. Lee, Headspace liquid-phase microextraction of chlorobenzenes in soil with gas chromatography-electron capture detection, *Anal. Chem.*, **2003**, *75*, 98-103.
- [53] T. S. Piper, R. C. Fay, Coordination compounds of trivalent metals with unsymmetrical bidentate ligands, *J. Am. Chem. Soc.*, 1963, *85*, 500-504.
- [54] E. Psillakis, N. Kalogerakis, Developments in liquid-phase microextraction, *Trends in Anal. Chem.*, **2003**, *22*, 565-574.

- [55] E. Zhao, L. Han, S. Jiang, Q. Wang, Z. Zhou, Application of a single-drop microextraction for the analysis of organophosphorus pesticides in juice, *J. Chromatogr. A*, **2006**, *1114*, 269–273.
- [56] R. Zhao, S. Chu, X. Xu, Optimization of nonequilibrium liquid-phase microextraction for the determination of nitrobenzenes in aqueous samples by gas chromatography -electron capture detection, *Anal. Sci.*, **2004**, *20*, 663–666.
- [57] B. M. Liu, P. Malik, H. F. Wu, Single-drop microextraction and gas chromatography/mass spectrometric determination of anisaldehyde isomers in human urine and blood serum, *Rapid Commun. Mass Spectrom.*, **2004**, *18*, 2059–2064.
- [58] C. Casari, A. R. J. Andrews, Application of solvent microextraction to analysis of amphetamine and phencyclidine in urine, *Forens. Sci. Int.l*, **2001**, *120*, 165-171.
- [59] ChemFinder.Com, <http://chemfinder.cambridgesoft.com/result.asp>.
- [60] L. Zhao, H. K. Lee, Application of solvent microextraction to the analysis of nitroaromatic explosives in water samples, *J. Chromatogr. A*, **2001**, *919*, 381-388.
- [61] 林晃輝, 氣相層析/火焰光度偵測法應用於鉻物種的分析, 東海大學碩士論文, 1997.
- [62] R. J. Lovett, G. F. Lee, Analysis of chromium in natural waters by gas chromatography, *Environ. Sci. Technol.*, **1976**, *10*, 67-71.
- [63] H. Shioji, S. Tsunoi, H. Harino, M. Tanaka, Liquid-phase microextraction of tributyltin and triphenyltin coupled with gas chromatography–tandem mass spectrometry: Comparison between 4-fluorophenyl and ethyl derivatizations, *J. Chromatogr. A*, **2004**, *1048*, 81–88.
- [64] C. L. Blanco, S. G. Alvarez, M. R. Garrote, B. C. Grande,

- Determination of carbamates and organophosphorus pesticides by SDME–GC in natural water, *Anal. Bioanal. Chem.*, **2005**, 383, 557–561.
- [65] L. Zhu, K. H. Ee, L. Zhao, H. K. Lee, Analysis of phenoxy herbicides in bovine milk by means of liquid–liquid–liquid microextraction with a hollow-fiber membrane, *J. Chromatogr. A*, **2002**, 963, 335-343.
- [66] L. Zhu, L. Zhu, H. K. Lee, Liquid-liquid-liquid microextraction of nitrophenols with a hollow fiber membrane prior to capillary liquid chromatography, *J. Chromatogr. A*, **2001**, 924, 407-414.
- [67] C. I. Measures, J. M. Edmond, Determination of beryllium in natural waters in real time using electron capture detection gas chromatography, *Anal. Chem.*, **1986**, 58, 2065-2069.
- [68] K. J. Eisentraut, D. J. Griest, R. E. Sievers, Ultratrace analysis for beryllium in terrestrial, meteoritic, and Apollo 11 and 12 lunar samples using electron capture gas chromatography, *Anal. Chem.*, **1971**, 43, 2003-2007.
- [69] J. Savory, P. Mushak, F. W. Sunderman, R. H. Estes, N. O. Roszel, Microdetermination of chromium in biological materials by gas chromatography, *Anal. Chem.*, **1970**, 42, 294-297.
- [70] 丁佐蕙, 固相微萃取結合氣相層析/火焰光度偵測法應用於金屬鉻的分析, 東海大學碩士論文, 2002.
- [71] 林媽堯, 以微波衍生及液滴微萃取結合器相層析/火焰光度偵測法應用於金屬鉻的分析, 東海大學碩士論文, 2007.
- [72] AOAC *Peer-Verified Method Program*, Manual on policies and procedures, Arlington, Va., USA (November 1993).
- [73] J. E. Schwarberg, R. W. Moshier, Feasibility of gas-liquid chromatography for quantitative determination of aluminum,



gallium, indium and beryllium trifluoroacetylacetonates, *Talanta*,  
**1964**, *11*, 1213-1224.