

Referências bibliográficas

ABOURASHED, E. A.; VANDERPLANK, J.; KHAN, I. A. High-Speed Extraction and HPLC Fingerprinting of Medicinal Plants – II. Application to Harman Alkaloids of Genus *Passiflora*. *Pharmaceutical Biology*, v.41, n.2, p.100 – 106, 2003.

ABRAZ – Associação Brasileira de Alzheimer. Disponível em: www.abraz.org.br (último acesso em 27/11/14).

ADACHI, J. et al. Determination of beta-carbolines in foodstuffs by high-performance liquid-chromatography and high-performance liquid-chromatography mass-spectrometry. *Journal of Chromatography*, v.538, p.331–339. 1991.

AHMADI, F.; DANESHMEHR, M.A.; RAHIMI, M. The effect of anionic and cationic surfactants on indicators and measurement of dissociation constants with two different methods. *Spectrochimica Acta Part A*, v.67, p.412 – 419, 2007.

AIKEN, J. H.; HUIE, C. W. Detection of bilirubin using surfactant fluorescence enhancement and visible laser fluorometry. *Analytical Letters*, v.24, n.1, p.167 – 180, 1991.

ANALYTICAL METHODS COMMITTEE. Is My Calibration Linear?. Analytical Division. The Royal Society of Chemistry. Burlington House, Piccadilly, London, UK. *Analyst.*, v.1, n.119, p. 2363-2366, 1994.

ANVISA - Agência Nacional de Vigilância Sanitária, Formulário de Fitoterápicos da Farmacopéia Brasileira. 1ª edição, Brasília, 2011.

ARMSTRONG, D.W., HENRY, S.J. Use of an Aqueous Mobile Phase for Separation of Phenols and PAHs via HPLC. *Journal of Liquid Chromatography*, v.3, p.657 – 662, 1980.

ARMSTRONG, D.W.; NOME, F. Partitioning behavior of solutes eluted with micellar mobile phases in liquid chromatography. *Analytical Chemistry*, v.53, p.1662-1666, 1981.

ARMSTRONG, D. W.; STINE, G. Y. Selectivity in Pseudophase Liquid Chromatography. *Analytical Chemistry*, v.55, p.2317 – 2320, 1983.

ARMSTRONG, D.W.; WARD, T.J.; BERTHOD, A. Micellar Effects on Molecular Diffusion: Theoretical and Chromatographic Considerations. *Analytical Chemistry*, v.58, p.579 – 582, 1986.

ARUNYANART, M.; CLINE LOVE, L. J. Model for micellar effects on liquid chromatography capacity factors and for determination of micelle-solute equilibrium constants. *Analytical Chemistry*, v.56, p.1557 – 1561, 1984.

ARUNYANART, M.; CLINE LOVE, L.J. Influence of Micelles on Partitioning Equilibria of Ionizable Species in Liquid Chromatography: pH and Ionic Strength Effects. *Analytical Chemistry*, v.57, p.2837 – 2843, 1985.

BACK, Y.M. et al. Analysis of heterocyclic amines and β -carbolines by liquid chromatography–mass spectrometry in cooked meats commonly consumed in Korea. *Food Additives and Contaminants*, v. 26, n. 3, p. 298 – 305, 2009.

BACHUS, R. et al. The O-demethylation of the antideementia drug galanthamine is catalysed by cytochrome P450 2D6. *Pharmacogenetics*, v.9, p.661 – 668, 1999.

BALÓN, M. et al. Fluorescence characteristics of β -carboline alkaloids in highly concentrated hydroxide solutions *Journal of Photochemistry*, 36 193 – 204, 1987.

a. _____. Acid-base and Spectral Properties of β -Carbolines. Part I. Tetrahydro- β -carbolines, *Journal of Chemical Society, Perkin Transactions 2*, p. 91-97, 1993.

b. _____. Acid-Base and Spectral Properties of β -Carbolines. Part 2. Dehydro and Fully Aromatic β -Carbolines. *Journal of Chemical Society, Perkin Transactions 2*, p.99 - 104, 1993.

BERKOV, S. et al. Review: Plant sources of galanthamine: Phytochemical and Biotechnological aspects *Biotechnology and Biotechnological Equipment*. v.23, p.1170 – 1176, 2009.

_____. Development and validation of a GC–MS method for rapid determination of galanthamine in *Leucojum aestivum* and *Narcissus ssp.*: A metabolomic approach. *Talanta*, v.83, p. 1455 – 1465, 2011.

a. BERTHOD, A., GIRARD, I., GONNET, C., Micellar Liquid Chromatography: Adsorption Isotherms of Two Ionic Surfactants on Five Stationary Phases. *Analytical Chemistry*, v.58, p.1356 – 1358, 1986.

b. _____. Additive Effects on Surfactants Adsorption and Ionic Solute Retention in MLC, *Analytical Chemistry*, v.58, p.1362 –1367, 1986.

BERTHOD, A. Review: Causes and remediation of reduced efficiency in micellar liquid chromatography. *Journal of Chromatography A*, v. 780, p.191-206, 1997.

BERTHOD, A.; GARCÍA-ALVAREZ-COQUE, M.C. Micellar Liquid Chromatography, Marcel Dekker, Inc., New York, 2000.

BERTHOD, A; CARDA-BROCH, S. Review: Determination of liquid-liquid partition coefficients by separation methods. Journal of Chromatography A, v. 1037, p.3-14, 2004.

BISWAS, S. et al. Absorption and emission spectroscopic studies of fluorescein dye in alkanol, micellar and microemulsion media. Journal of Photochemistry and Photobiology A: Chemistry, v. 123, p.121 -128, 1999.

BORES, G. M. et al. Pharmacological evaluation of novel Alzheimer's disease therapeutics: acetylcholinesterase inhibitors related to galanthamine. Journal of Pharmacology and Experimental Therapeutics, v.277, p.728 – 738, 1996.

BORGERDING, M. F.; HINZE, W. L. Characterization and evaluation of the use of nonionic polyoxyethylene (23) dodecanol micellar mobile phases in reversed-phase high-performance liquid chromatography. Analytical Chemistry, v. 57, p.2183-2190, 1985.

BORGERDING, M. F. et al. Investigation of the retention mechanism in nonionic micellar liquid chromatography using an alkylbenzene homologous series. Analytical Chemistry, v. 60, p.2520-2527, 1988.

BROSSI, A. in: G.A. Cordell (Ed.). The Alkaloids. Chemistry and Pharmacology, Academic Press, New York, v. 43, 1993.

CARDA-BROCH S. et al. Use of a three-factor interpretive optimisation strategy in the development of an isocratic chromatographic procedure for the screening of diuretics in urine samples using micellar mobile phases. Journal of Chromatography A, v.893, p.321-337, 2000.

CARLINI, E.A. Review - Plants and the central nervous system. Pharmacology, Biochemistry and Behavior, v.75, p. 501-512, 2003.

CARMONA C. et al. Ground and singlet excited state hydrogen bonding interactions of beta-carbolines. Physical Chemistry Chemical Physics, v.2, p.5076 – 5083, 2000.

CASAL S. et al. Analysis of heterocyclic aromatic amines in foods by gas chromatography-mass spectrometry as their *tert*.-butyldimethylsilyl derivatives. Journal of Chromatography A, v.1040, p.105-114, 2004.

CEPAS J., SILVA, M., PEREZ-BENDITO, D. Integrated derivatization-chemiluminescence detection system for the determination of β -carboline alkaloids by high-performance liquid chromatography. Journal of Chromatography A, v.749, p.73-80, 1996.

CHENG J., MITCHELSON K. R. Improved separation of six harmane alkaloids by high-performance capillary electrophoresis. *Journal of Chromatography A*, v.761, p.297-305, 1997.

CLINE-LOVE, L.J., FETT, J.J. Optimization of selectivity in micellar chromatographic procedures for the determination of drugs in urine by direct injection. *Journal of Pharmaceutical & Biomedical Analysis*, v.9, p.323-333, 1991.

COLLADO-SÁNCHEZ, M.A. et al. Simultaneous Separation and Determination of Quinolones in Pharmaceuticals by Micellar Liquid Chromatography. *Journal of Liquid Chromatography e Relates Technologies*, v. 33, p.513-525, 2010.

CORDELL, G. A. *The Alkaloids*, v. 43, San Diego: Editora Academic Press Inc., 1993.

CULZONI, M. J.; AUCELIO, R. Q.; ESCANDAR, G. M. Spectrofluorimetry in organized media coupled to second-order multivariate calibration for the determination of galantamine in the presence of uncalibrated interferences. *Talanta*, v.82, p.325–332, 2010.

_____. High-performance liquid chromatography with fast-scanning fluorescence detection and multivariate curve resolution for the efficient determination of galantamine and its main metabolites in serum. *Analytica Chimica Acta*, v.740, p.27– 35, 2012.

DIAS, A. et al. β -Carboline Photosensitizers. 1. Photophysics, Kinetics and Excited-State Equilibria in Organic solvents, and Theoretical Calculations, *J. Phys. Chem.*, 96, 10290-10296, 1992.

DORSEY, J.G.; DEECHEGARAY, M.T.; LANDY, J.S. Efficiency Enhancement in Micellar Liquid Chromatography, *Analytical Chemistry*, v. 55, p.924-928, 1983.

EURACHEM/CITAC. *Determinando a Incerteza na Medição Analítica*, 2^a edição da 1^a edição Brasileira, 2002.

ESTEVE-ROMERO, J. S. et al. Micellar enhanced spectrophotometric determination of organic species. *Trends in Analytical Chemistry*, v.14, n.1, p.29-37, 1995.

_____. Micellar liquid chromatography for the determination of drug materials in pharmaceutical preparations and biological samples. *Trac-Trends in Analytical Chemistry*, v.24, n.2, p.75–91, 2005.

FOLEY, J.P. Critical Compilation of Solutes-Micelle Binding Constants and Related Parameters from MLC Measurements. *Analytical Chimica Acta*, v.231, p.237 - 247, 1990.

FRANCIS, P.T. et al. The cholinergic hypothesis of Alzheimer's disease: a review of progress. *Journal of Neurology Neurosurgery Psychiatry*, v.66, p.137-147, 1999.

GAMP, H. et al. *Talanta*, v. 32, p.95, 1985.

GANS, P., Sabbatini, A., Vacca, A., *Talanta*, v.43, p.1739, 1996.

GARCÍA-ALVAREZ-COQUE, M.C.; TORRES-LAPASÍO, J.R.; BAEZA-BAEZA, J.J. Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers. *Analytica Chimica Acta*, v.324, p.163-173, 1996.

_____. Modelling of Retention Behaviour of Solutes in Micellar Liquid Chromatography. Review. *Journal of Chromatography A*, v. 780, p.129-148, 1997.

GARCÍA-ALVAREZ-COQUE, M.C.; TORRES-LAPASÍO, J.R. Quantitation of hydrophobicity in micellar liquid chromatography. *Trends in Analytical Chemistry*, v.18, n.8, p.533-543, 1999.

GERAKIS, A.M., KOUPPARIS, M.A., EFSTATHIOU, C.E. Micellar acid-base potentiometric titrations of weak acidic and/or insoluble drugs. *Journal of Pharmaceutical & Biomedical Analysis*, v.1, p.33-41, 1993.

GONZÁLEZ-RUIZ, V; OLIVES, A. I.; MARTÍN, M. A. SPE/RP-HPLC using C1 columns: an environmentally friendly alternative to conventional reverse-phase separations for quantitation of beta-carboline alkaloids in human serum samples. *Analytical Bioanalytical Chemistry*, v.400, p.395–401, 2011.

GORYACHEVA, I.Y.; RUSANOVA, T.Y.; PANKIN, K.E. Fluorescent Properties of Aflatoxins in Organized Media Based on Surfactants, Cyclodextrins, and Calixresorcinarenes. *Journal of Analytical Chemistry*, v. 63, n.8, p.751–755, 2008.

GRICE, I. D.; FERREIRA, L. A.; GRIFFITHS, L. R. Identification and simultaneous analysis of harmane, harmine, harmol, isovitexin, and vitexin in *passiflora incarnata* extracts with a novel HPLC method, *Journal of Liquid Chromatography & Related Technologies*, v. 24, n.16, p.2513–2523, 2001.

GROSS, G. A.; GRITER, A. Quantitation of mutagenic/carcinogenic heterocyclic aromatic amines in food products. *Journal of Chromatography*, v.592, p.271-278, 1992.

GUAN, Y.; LOUIS, E.D.; ZHENG W. Toxicokinetics of tremorogenic natural products, harmane and harmine, in male sprague-dawley rats. *Journal of Toxicology and Environmental Health Part A*, v.64, p. 645 – 660, 2001.

GUM 2008– Guia para a Expressão da Incerteza de Medição. Avaliação de Dados de Medição. 1ª edição brasileira, INMETRO, 2012.

GUNN, J. A. Relations between chemical constitution, pharmacological actions, and therapeutics uses, in the harmine group of alkaloids. Arch Int. Pharmacodyn Ther., 50, 379 – 396, 1937.

HANSCH, C., in E.J. Ariens, Drug Design, v.1, Academic Press, New York, 1971.

HARVEY, A.L., The pharmacology of galanthamine and its analogues, Pharmac. Ther., 68, 113-128, 1995.

HERRAIZ, T., Relative exposure to β -carbolines norharman and harman from foods and tobacco smoke, Food Additives and Contaminants, Vol. 21, No. 11, 1041–1050, 2004.

HINZE, W.L. et al. Micellar enhanced analytical fluorimetry. Trends in Analytical Chemistry, v.3, n. 8, p.193-199, 1984.

INGLE, J. D. J.; Crouch, S. R. Spectrochemical Analysis, Prentice Hall. New Jersey, 1988.

INMETRO - Instituto Nacional de Metrologia, Qualidade e Tecnologia. GUM 2008: Avaliação de Dados de Medição– Guia para a expressão da incerteza de medição (1ª edição Brasileira da 1ª edição do BIPM 2008), Rio de Janeiro, 2008.

_____. Orientação sobre validação de métodos analíticos. DOQ-CGCRE-008 Revisão 04, Rio de Janeiro, 2010.

JAFFÉ, H.H., ORCHIN, M., Theory and Applications of Ultraviolet Spectroscopy, Wiley, New York, 1962.

JANDERA, E.; FISCHER, J. Chromatographic behaviour in reversed-phase high-performance liquid chromatography with micellar and submicellar mobile phases. Journal of Chromatography A, v.728, p.279-298, 1996.

JANSSEN, C.G.M; THIJSEN, J.B.A.; VERLUYTEN, W.L.M. Synthesis of 3H-, 14C-, and stable-isotopelabelled galantamine. Journal of Labelled Compounds and Radiopharmaceuticals, v.45, p.841 – 855, 2002.

JIMÉNEZ, O.; GARCÍA, M. A.; MARINA, M.L. A model describing the effect on retention of the addition of alcohols to the mobile phase in micellar liquid chromatography. Journal of Chromatography A, v.719, p.15-26, 1996.

JIMÉNEZ, O.; MARINA, M.L. Retention modeling in micellar liquid chromatography – Review, *Journal of Chromatography A*, v.780, p.149-163, 1997.

KHALEDI, M. G. Review - Micelles as separation media in high performance liquid chromatography and high performance capillary electrophoresis: overview and perspective, *Journal of Chromatography A*, v.780, p.3-40, 1997.

KARTAL, M.; ALTUN, M.L.; KURUCU, S. HPLC method for the analysis of harmol, harmalol, harmine and harmaline in the seeds of *Peganum harmala* L. *Journal of Pharmaceutical and Biomedical Analysis*, v.31, p.263-269, 2003.

KATAOKA, H. Methods for the determination of mutagenic heterocyclic amines and their applications in environmental analysis – Review, *Journal of Chromatography A*, v.774, p.121-142, 1997.

KORD, A. S.; KHALEDI, M. G. Controlling Solvent Strength and Selectivity in Micellar Liquid Chromatography: Role of Organic Modifiers and Micelles, *Analytical Chemistry*, v.64, n.17, p.1894-1900, 1992.

LEGGET, D.J., in: D.J. Legget (Ed.), *Computational Methods for the Determination of Formation Constants*, Plenum Press, New York, 1985.

LEÓN, A.G. et al. The role of b-cyclodextrin and hydroxypropyl b-cyclodextrin in the secondary chemical equilibria associated to the separation of b-carbolines by HPLC. *Journal of Inclusion Phenomena and Macrocyclic Chemistry.*, v.57, p.577–583, 2007.

_____. Influence of the presence of methyl cyclodextrins in high-performance liquid chromatography mobile phases on the separation of β -carboline alkaloids. *Journal of Chromatography A*, v.1192, p.254–258, 2008.

LI, S. et al. Metabolites identification of harman e in vitro/in vivo in rats by ultra-performance liquid chromatography combined with electrospray ionization quadrupole time-of-flight tandem mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*, v.92, p.53–62, 2014.

LÓPEZ-GRÍO, S.; BAEZA-BAEZA, J. J.; GARCÍA-ALVAREZ-COQUE, M. C. Influence of the Addition of Modifiers on Solute-Micelle Interaction in Hybrid Micellar Liquid Chromatography, *Chromatographia*, v.48, n.9/10, p.655-663, 1998.

LÓPEZ-GRIÓ, S.J. et al. Resolution assessment and performance of several organic modifiers in hybrid micellar liquid chromatography. *Analytica Chimica Acta*, v.433, p.187–198, 2001.

MACKA, M. et al. Determination of Acyclovir in Blood Serum and Plasma by Micellar Liquid Chromatography with Fluorimetric Detection. *Journal of Liquid Chromatography*, v.16, n.11, p.2359 – 2386, 1993.

MADAMBA-TAN, L.S.; STRASTERS, J.K.; KHALEDI, M.G.; Gradient elution in micellar liquid chromatography I. Micelle concentration gradient. *Journal of Chromatography A*, v. 683, p. 321 – 334, 1994.

MALÁKOVÁ, J. et al. High-performance liquid chromatographic method with UV photodiode-array, fluorescence and mass spectrometric detection for simultaneous determination of galantamine and its phase I metabolites in biological samples. *Journal of Chromatography B*, v. 853, p. 265–274, 2007.

MANIASSO, N.; Ambientes micelares em química analítica; Química Nova, v. 24, p. 87 – 93, 2001.

MANNENS, G. S. J. et al. The metabolism and excretion of galantamine in rats, dogs, and humans. *Drug Metabolism and Disposition*, v. 30, p. 553 – 563, 2002.

MAPA – Manual da Garantia da Qualidade Analítica – Resíduos e Contaminantes em Alimentos. Ministério da Agricultura, Pecuária e Abastecimento, 2011.

MARQUES, F.F.C. et al. Selective determination of harmol by room-temperature phosphorimetry: a comparative performance with micellar electrokinetic capillary chromatography. *Analytical Letters*, v. 41, p. 1648 – 1657, 2008.

MARTÍN, L. et al. Fluorescence quenching of β -carboline alkaloids in micellar media. A study to select the adequate surfactant to use in analytical techniques. *Luminescence*; v. 20, p. 152–161, 2005.

MCCORMICK, T. J.; Foley, J. P.; Lloyd, D. K. Chromatographic performance of large-pore versus small-pore columns in micellar liquid chromatography. *Journal of Chromatography B*, v. 785, 1–20, 2000.

MOMENBEIK, F.; KHORASANI, J. H.; Analysis of Sugars by Micellar Liquid Chromatography with UV detection; *Acta Chromatographica*, n. 16, p. 58 – 69, 2006.

MONCRIEFF, J. Determination of pharmacological levels of harmine, harmine and harmaline in mammalian brain tissue, cerebrospinal fluid and plasma by highperformance liquid chromatography with fluorimetric detection. *Journal of Chromatography – Biomedical Applications*, v. 496, p. 269 – 278, 1989.

NAWROCKI, J. The silanol group and its role in liquid chromatography. Review. *Journal of Chromatography A*, v. 779, p. 29 – 71, 1997.

NIAZI, A.; ZOLGHARNEIN, J.; DAVOODABADI, M. R. Spectrophotometric determination of acidity constant of some indicators in various micellar media solutions by rank annihilation factor analysis. *Spectrochimica Acta Part A*, v. 70, p. 343–349, 2008.

NISHIGATA, H.; YOSHIDA, D.; MATSUMOTO, T., Determination of the yield of norharman and harman in the pyrolytic products of proteins. *Agriculture and Biological Chemistry*, v. 44, p. 209 – 210, 1980.

PELIZZETTI, E.; PRAMAURO, E. Analytical Applications of Organized Molecular Assemblies – Review. *Analytical Chimica Acta*, v. 169, p. 1 – 29, 1985.

PEREIRA C. A. M., VILEGAS, J.H.Y. Constituintes químicos e farmacologia do gênero *Passiflora* com ênfase a *P. alata*, *P. edulis* e *P. incarnata*: revisão da literatura. *Revista Brasileira de Plantas Medicinais*, v. 3, p. 1 – 12, 2000.

PFAU, W., SKOG, K., Review - Exposure to β -carbolines norharman and harman. *Journal of Chromatography B*, v. 802, p. 115–126, 2004.

RAMBLA-ALEGRE, M.; ESTEVE-ROMERO, J.; CARDA-BROCH, S. Validation of a MLC method with fluorescence detection for the determination of quinolones in urine samples by direct injection. *Journal of Chromatography B*, v. 877, p. 3975–3981, 2009.

RAMBLA-ALEGRE, M. et al. Analysis of selected veterinary antibiotics in fish by micellar liquid chromatography with fluorescence detection and validation in accordance with regulation 2002/657/EC. *Food Chemistry*, v. 123, p. 1294 – 1302, 2010.

REHWALD, A., STICHER, O., MEIER, B. Trace Analysis of Harman Alkaloids in *Passiflora incarnata* by Reversed-phase High Performance Liquid Chromatography. *Phytochemical Analysis*, v. 6, p. 96 – 100, 1995.

RIBA, J. et al. Metabolism and disposition of *N,N*-dimethyltryptamine and harmala alkaloids after oral administration of *Ayahuasca*. *Drug Testing and Analysis*, v. 4, p. 610 – 616, 2012.

RIBANI, M. et al. Validação em métodos cromatográficos e eletroforéticos. *Química Nova*, v. 27, n. 5, p. 771 – 780, 2004.

RIZZATTI, I. M.; ZANETTE, D. R.; MELLO, L. C. Determinação potenciométrica da concentração micelar crítica de surfactantes: uma nova aplicação metodológica no ensino de Química. *Química Nova*, v. 32, n. 2, p. 518 – 521, 2009.

RODRIGUEZ, E., CAVIN, J. C., WEST, J. E. The possible role of Amazonian phychoactive plantes in the chemotherapy of parasitic worms – A hypothesis. *Journal of Ethnopharmacology*, v. 6, p. 303 – 309, 1982.

RUIZ-ÁNGEL, M.J. et al. Micellar liquid chromatography: suitable technique for screening analysis. *Journal of Chromatography A*, v. 947, n.1, p. 31 – 45, 2002.

_____. Retention mechanisms in micellar liquid chromatography. *Journal of Chromatography A – Review*, v. 1216, p. 1798–1814, 2009.

SAKUROVS, R.; GHIGGINO, K. P., Excited state proton transfer in β -carboline. *Journal of Photochemistry*, v. 18: p. 1 – 8, 1982.

SAVORY, B., TURNBULL, J. H. Luminescence spectra of harmine, harmaline, reserpiline and 3-dehydroreserpines. *Journal of Photochemistry*, v. 24, p. 355 – 371, 1984.

SCHLUMAN, S.G. Acid-Base Chemistry of Excited Singlet States. In.____: *Modern Fluorescence Spectroscopy*, v. 2, p. 239 – 258, Plenum Publishing Corporation, New York, 1976.

SHINODA, K.; FONTELL, K. Ionic Surfactants Capable of Begin Used in Hard Water. *Advances in Colloid and Interface Science*, v. 54, p. 55 – 72, 1995.

TAKEUCHI, T. Micelles for signal enhancement and novel selectivity of dansyl amino acids – Review. *Journal of Chromatography A*, v. 780, p. 219 – 228, 1997.

TAM, K. Y.; TAKÁCS-NOVÁK, K. Multi-wavelength spectrophotometric determination of acid dissociation constants: a validation study. *Analytica Chimica Acta*, v. 434, p.157 – 167, 2001.

TAPIA, M.J. et al. Acid-base equilibria of methyl β -carboline-3-carboxylate in aqueous solution. *Journal of Luminescence*, v. 101, p. 227 – 234, 2003.

THENCHEVA, J.; YAMBOLIEV, I.; ZHIVKOVA, Z. Reversed-phase liquid chromatography for the determination of galanthamine and its metabolites in human plasma and urine. *Journal of Chromatography*, v. 421, p. 396 – 400, 1987.

THOMAS-VERT, F.; SANCHEZ, I. Z.; TORRENT, A. O. Acidity constants of β -carbolines in the ground and excited singlet state. *Journal of Photochemistry*, v. 23, p. 355 – 368 355, 1983.

TORRES-LAPASIÓ, J.R.; BAEZA-BAEZA, J.J.; GARCÍA-ALVAREZ-COQUE, M.C. On the measurement of dead time in micelar liquid chromatography. *Journal of Liquid Chromatography e Related Technologies*, v. 19, n. 8, p. 1205 – 1228, 1996.

TSUCHIYA, H.; SHIMIZU, H.; IINUMA, M. Beta-Carboline Alkaloids in Crude Drugs, Chemical and Pharmaceutical Bulletin, v. 47, n. 3, p. 440 – 443, 1999.

TSUCHIYA, H. High-performance liquid chromatographic analysis of β -carbolines in human scalp hair. Journal of Chromatography A, v. 1031, p. 325 – 330, 2004.

UNDERWOOD, A.L. Acid-base titrations in aqueous micelar systems. Analytica Chimica Acta, v. 93, p. 267 – 273, 1977.

VACÁREL. M. Principios de Química Analítica. Editora Springer-Verlag Ibérica, Barcelona, 1999.

VARELA, A. P et al. β -carboline photosensitizers. 3. Studies on ground and excited state partitioning in AOT/water/cyclohexane microemulsions, Journal of Physical Chemistry, v. 99, p. 16093 – 16100, 1995.

VERHAEGHE, T. et al. Development and validation of a liquid chromatographic–tandem mass spectrometric method for the determination of galantamine in human heparinised plasma Journal of Chromatography B, v. 789, p. 337–346, 2003.

VIM – Vocabulário Internacional de Metrologia, Conceitos Fundamentais e Gerais e Termos Associados, 1ª edição Luso-Brasileira, Rio de Janeiro, 2012.

ZHANG, L. et al. Pharmacokinetics and Bioequivalence Studies of Galantamine Hydrobromide Dispersible Tablet in Healthy Male Chinese Volunteers. Drug Development and Industrial Pharmacy, v. 33, p. 335–340, 2007.

ZHANG, L. et al. Simultaneous determination of harmine, harmaline and their metabolites harmol and harmalol in beagle dog plasma by UPLC–ESI-MS/MS and its application to a pharmacokinetic study. Journal of Pharmaceuticals and Biomedical Analysis, v.85, p. 162–168, 2013.

ZHAO, Q. et al. Pharmacokinetics and safety of galantamine in subjects with hepatic impairment and healthy volunteers. Journal of Clinical Pharmacology, v. 42, p. 428 – 436, 2002.

ZHENG, W. et al. Determination of Harmane and Harmine in Human Blood Using Reversed-Phased High-Performance Liquid Chromatography and Fluorescence Detection, Analytical Biochemistry, v. 279, p.125–129, 2000.

YRITIA, M. et al. Determination of *N,N*-dimethyltryptamine and β -carboline alkaloids in human plasma following oral administration of *Ayahuasca*, Journal of Chromatography B, v.779, p.271–281, 2002.

WHITEHOUSE, P. J. et al. Alzheimer's disease and senile dementia: loss of neurons in the basal forebrain. *Science*, v. 215, p. 1237 – 1239, 1982.