

REFERENCES

- Ainbinder D., Touitou E., 2005. Testosterone ethosomes for enhanced transdermal delivery. *Drug Deliv.* 12: 297-303.
- Akgerman A., Madras G. Fundamentals of solids extraction by supercritical fluids. In: Kiran E., Levert Sengers J.M.H.,eds. *Supercritical fluid fundamental and application*, Kluwer Academic Publisher. 1994: 669-695.
- Allen ST (1974): *Chemical Analysis of Ecological Material*. Blackwell Scientific Publication. New York, p. 313.
- Antioxidant potential of crocins and ethanol extracts of *Gardenia jasminoides* ELLIS and *Crocus sativus* L. : A relationship investigation between antioxidant activity and crocin contents. *Food Chemistry* 109: 484–492.
- Arican M, Ceylan C (1999): Metalloproteinases in canine experimental traumatic keratoconjunctivitis. *J Vet Med* 46: 527–532.
- Arouri A., Dathe M., Blume A. 2009. Peptide induced demixing in PG/PE lipid mixtures: A mechanism for the specificity of antimicrobial peptides towards bacterial membranes?. *BBA - Biomembranes*, 1788(3): 650-659.
- Avnir Y., Ulmansky R., Wasserman V., Even-Chen S., Broyer M., Barenholz Y., Naparstek Y. 2008. Amphipathic weak acid glucocorticoid prodrugs remote-loaded into sterically stabilized nanoliposomes evaluated in arthritic rats and in a Beagle dog : a novel approach to treating autoimmune arthritis, *Arthritis Rheum.* 58(1): 119-129.

- Baillie A.J., Coombs G.H., Dolan T.F., Laurie J. 1986. Non-ionic surfactant vesicles, niosomes, as a delivery system for the anti-leishmanial drug, sodium stibogluconate. *J Pharm Pharmacol.* 38: 502-505.
- Balitaan J.N., Steinbrenner H. and Ramos M.C., Zymography-based assay for screening potential anti-gelatinase agents using *Serratia marcescens* serralysin, *Philipp. Sci. Lett.*, 2010, 3: 100-108.
- Barenholz Y. Amphipathic weak base loading into preformed liposomes having a transmembrane ammonium ion gradient: from the bench to approved DOXIL, Informa Healthcare, New York. 2007.
- bearing mice. *J Drug Target.* 1: 143-145.
- Blazek-Welsh A.I., Rhodes D.G. 2001. Maltodextrin-based proniosomes. *AAPS Pharm Sci.* 3(1): 1-8.
- Boonyuen C., Wangkarn S., Suntornwat O. and Chaisuksant R., Antioxidant capacity and phenolic content of *Mimusops elengi* fruit extract. *Kasetsart Journal of Natural Sciences.* 2009; **43:** 21-27.
- Brandl M., Bachmann D., Drechsler M., Bauer K.H. 1990. Liposome preparation by a new high pressure homogenizer Gaulin Micron Lab 40. *Drug Dev Ind Pharm.* 16: 2167-2191.
- Brewer J.M., Roberts C.W., Conacher M., McColl J., Blarney B.A., Alexander J. 1996. An adjuvant formulation that preferentially induces T-helper cell type 1 cytokine and CD8 cytotoxic responses is associated with up-regulation of IL-12 and suppression of IL-10 production. *Vaccine Res.* 5: 77-89.

- Brgles M., Habjane L., Halassy B., Tomasi J. 2009. Liposome fusogenicity and entrapment efficiency of antigen determine the Th1/Th2 bias of antigen-specific immune response. *Vaccine*. 27: 5435-5442.
- Brimer L, Lorentzen B, Smitt V (1989): Evelser I Farmakognosi K-25/9. Royal Danish School of Pharmacy. Copenhagen by supercritical antisolvent precipitation *Power Technol* 106:203
- Carmeliet P, Moons L, Herbert JM, Crawley J, Lupu F, Lijnen R, Collen D (1997): Urokinase but not tissue plaminogen activator mediates arterial neointima formation in mice. *Circ Res* 81: 829–839
- Cevc G., Blume G. 2001. New, highly efficient formulation of diclofenac for the topical, transdermal administration in ultradeformable drug carriers, Transfersomes. *BBA - Biomembranes*. 1514(2): 191-205.
- Chandraprakash K.S., Udupa N., Umadevi P., Pillai G.K. 1993. Effect of macrophage activation on plasma disposition of niosomal 3H-Methotrexate in sarcoma-180
- Chen Y, Zhang H, Tian X, Zhao C, Cai Le, Liu Y, Jia L, Yin HX, Chen C (2008):
- Ciotti S.N., Weiner N. 2002. Follicular liposomal delivery systems. *J Liposome Res.* 12: 143-148.
- Clerc S., Barenholz Y. 1998. A quantitative model for using acridine orange as a transmembrane pH gradient probe. *Anal Biochem*. 259 (1): 104-111.
- Cortesia R., Esposito E., Lucab G., Nastruzzi C. 2002. Production of lipospheres as carriers for bioactive compounds. *Biomaterials*. 23: 2283-2294.
- Crommelin D.J.A., Schreier H. Liposomes in colloidal drug delivery systems. In: Kreuter J., eds. Marcel Dekker Inc, New York. 1994. 66: 119.

- Deamer D.W., Bangham A.D. 1976. Large volume liposomes by an ether injection method. *Biochim Biophys Acta.* 443: 629-634.
- Decker EA, Welch B (1990): Role of ferritin as a lipid oxidation catalyst in muscle food. *J Agric Food Chem* 38: 674–677.
- Dingle J.T., Gordon J.L., Hazleman B.L., Knight C.G., Page Thomas D.P., Phillips N.C., Shaw I.H., Flides F.J.T., Oliver J.E., Jones G., Turner E.H., Lowe J.S. 1978. Novel treatment for joint inflammation. *Nature.* 271: 372-373.
- Dos Ramos J.G., Silebi C.A. 1999. Determination of particle size distribution of submicrometer particles by capillary hydrodynamic fractionation. *J Colloid Interface Sci.* 135: 165-177.
- Draize J., Woodard G., Calvery H. 1944. Methods for the study of irritation and toxicity of substances applied topically to the skin and mucous membranes. *J Pharmacol Exp Ther.* 82: 377-390.
- Ekart M.P., Brennecke J.F., Eckert D.A. Reviews in Modern Theory and Applications. In: Ely J., Bruno T., eds. *Supercritical Fluid Technology.* Boca Raton, FL: CRC Press. 1991.
- El Maghraby G.M., Williams A.C., Barry B.W. 2000b. Skin delivery of oestradiol from lipid vesicles: importance of liposome structure. *Int J Pharm.* 204: 159-69.
- El-Domyati M, Attia S, Saleh F, Brown D, Birk DE, Gasparro F, Ahmad H, Uitto J (2002): Intrinsic aging vs. photoaging: a comparative histopathological, immunohistochemical and ultrastructural study of skin. *Exp Dermatol* 11: 398–405.
- Eller F.J., Taylor S.L. and Palmquist D.E., Supercritical fluid chromatographic analysis for on-line monitoring of hexane removal from soybean oil miscella

- using liquid carbon dioxide. *Journal of Chromatography A.* 2005; **1094:** 183-186.
- Elsayed MA, Ossama YA, Viviane FN, Nawal MK (2006): Deformable liposomes and ethosomes: Mechanism of enhanced skin delivery. *Int J Pharm* 322: 60–66.
- Erdogan S., Ozer A.Y., Ercan M.T., Erylmaz M., Hincal A.A. 1996. *In vivo* studies on iopromide radiopaque niosomes. *STP Pharma Sci.* 6: 87-93.
- Farmworth NR. Biological and phytochemical screening of plant .*J Pharm Sci* 1966;55(3):225-277
- Felgner P., Gadek T.R., Holm M., Roman R., Wenz M., Northrop J.P., Ringold G., Danielsen M. 1987. Lipofectin: A highly efficient, lipid mediated DNA transfection procedure. *Proc Nat Acad Sci USA.* 84: 7413-7417.
- Fernandez R.M., Riske K.A., Amaral L.Q., Itri R., Lamy M.T. 2008. Influence of salt on the structure of DMPG studied by SAXS and optical microscopy. *Biochim Biophys Acta.* 1778: 907-916.
- Fisher GJ, Quan T, Purohit T, Shao Y, Cho MK, He T, Varani J, Kang S, Voorhees JJ (2009): Collagen fragmentation promotes oxidative stress and elevates matrix metalloproteinase-1 in fibroblasts in aged human skin. *Am J Pathol* 174: 101–114.
- Fraley R.T., Fornari C.S., Kaplan S. 1979. Entrapment of a bacterial plasmid in phospholipid vesicles: Potential for gene transfer. *Proc Natl Acad Sci USA.* 76(7): 3348-3352.
- Gao X., Huang L. 1991. A novel cationic liposome reagent for efficient transfection of mammalian cells. *Biophys Biochem Res Commun.* 179, 280–285.

- Girao H., Mota C. and Pereira, P., Cholesterol may act as an antioxidant in lens membranes, *Curr. Eye Res.*, 1999; **18**: 448-454.
- Gogly B, Grout N, Hornebeck W, Godeau G, Pellat B (1998): Collagen zymography as a sensitive and specific technique for the determination of subpicogram levels of interstitial collagenase. *Anal Biochem* 255: 211–216.
- Gorbaty Y.E., Bondarenko G.V. 1998. The physical state of supercritical fluids. *J of Supercritical Fluids*. 14(1): 1-8.
- Goren D., Gabison A., Barenholz Y. 1990. The influence of physical characteristics of liposomes on their pharmacological behavior. *Biochim Biophys Acta*. 1029: 285-294.
- Grant G.J., Barenholz Y., Bolotin E.M., Bansinath M., Turndorf H., Piskoun B., Davidson E.M. 2004. A novel liposomal bupivacaine formulation to produce ultralong-acting analgesia. *Anesthesiology*. 101(1): 133-7.
- Grit M., Crommelin D.J.A. 1993. The effect of surface charge on the hydrolysis kinetics of partially hydrogenated egg phosphatidyl choline and egg phosphatidyl glycerol in aqueous liposome dispersion. *Biochim Biophys Acta*. 1167: 49-55.
- Gross J, Lapierre CM (1962): Collagenolytic activity in amphibian tissues: a tissue culture assay. *Proc Natl Acad Sci USA* 48: 1014–1022.
- Gulcin I. 2006. Antioxidant and antiradical activities of l-carnitine. *Life Sciences*. 78:
- Guillen M.D. and Manzanos M. J., Study of the composition of the different parts of a Spanish Thrus vulgaris L. plant, *Food Chem.*, 1998; **63**: 373-383.
803-811.
- Guo J., Ping Q., Sun G., Jiao C. 2000. Lecithin vesicular carriers for transdermal delivery of cyclosporin A. *Int J Pharm.* 194: 201-207.

Harbone JR (1976): Phytochemical Methods. A Guide to Modern Techniques of Plant Analysis. Charpan & Hall, London, p. 78.

Hase T, Kawamoto Y, Ohtani K, Kasai R, Yamasaki K, Picheansoonthoni C (1995):

Cyclohexylethanois and related glucosides form *Millingtonia hortensis*. *Phytochemistry*, 39(1): 235-241.

He W, Liu X, Xu H, Gong Y, Yuan F, Gao Y (2010): On-line HPLC-ABTS screening and HPLC-DAD-MS/MS identification of free radical scavengers in Gardenia (*Gardenia jasminoides* Ellis.) fruit extracts. *Food Chemistry* 123: 521–528.

He W, Liu X, Xu H, Gong Y, Yuan F, Gao Y (2010): On-line HPLC-ABTS screening and HPLC-DAD-MS/MS identification of free radical scavengers in Gardenia (*Gardenia jasminoides* Ellis.) fruit extracts. *Food Chemistry* 123: 521–528.

He W., Liu X., Xu H., Gong Y., Yuan F. and Gao Y., On-line HPLC-ABTS screening and HPLC-DAD-MS/MS identification of free radical scavengers in Gardenia (*Gardenia jasminoides* Ellis) fruit extracts. *Food Chemistry*. 2010; **123**: 521-528.

Hiremath P.S., Soppimatha K.S., Betageri G.V. 2009. Proliposomes of exemestane for improved oral delivery: Formulation and *in vitro* evaluation using PAMPA, Caco-2 and rat intestine. *Int J Pharm.* 380(1-2): 96-104.

Horwitz AL, Hance AJ, Crystal RG (1977): Granulocyte collagenase: selective digestion of type I relative to type III collagen. *Proc Natl Acad Sci USA* 74: 897–901.

Horwitz E., Pisanty S., Czerninski R., Helser M., Eliav E., Touitou E. 1999. A clinical evaluation of a novel liposomal carrier for acyclovir in the topical treatment of

- recurrent herpes labialis. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod.* 87: 700-705.
- Hostettman K, Marston A (1995): Saponins. Cambridge University Press, United Kingdom.
- Hwang B.Y., Jung B.H., Chung S.J., Lee M.H., Shim C.K. 1997. *In vitro* permeation of nicotine from proliposomes. *J Control Rel.* 49: 177-184.
- Hwang S.H., Maitani Y., Qi X.R., Takayama K., Nagai T. 1999. Remote loading of diclofenac, insulin and fluorescein isothiocyanate labeled insulin into liposomes by pH and acetate gradient methods. *Int J Pharm.* 179(1): 85-95.
- inhibition, and biological effects. *Biochem Biophys Res Commun.* 338: 668-676.
- Ishikawa H., Shimoda Y., Matsumoto K. 2004. Preparation of liposomal microcapsules by proliposome method with soybean lecithin. *J Fac Agric Kyushu Univ.* 49(1): 119-127.
- Israelachvili J.N. Innermolecular and surface forces. New York, Academic Press. 1985.
- Jacobsen FE, Lewis JA, Cohen SM (2007): The design of inhibitors for medicinally relevant metalloproteins. *Chem Med Chem* 2: 152–171.
- Jordan F., Naylor A., Kelly C.A., Howdle S.M., Lewis A., Illum L. 2009. Sustained release hGH microsphere formulation produced by a novel supercritical fluid technology: *In vivo* studies. *J Control Rel.* article in press.
- Jousma H., Talsma H., Spies F., Joosten J.G.H., Junginger H.E., Crommelin D.J.A. 1987. Characterization of liposomes. The influence of extrusion of multilamellar vesicles through polycarbonate membranes on particle size, particle size distribution and number of bilayers. *Int J Pharm.* 35(3): 263-274.

- Jung J., Perrut M. 2001. Particle design using supercritical fluids: Literature and
- Kang Y., Yin G., Ouyang P., Huang Z., Yao Y., Liao X., Chen A., Pu X. 2008. Preparation of PLLA/PLGA microparticles using solution enhanced dispersion by supercritical fluids (SEDS). *J Colloid Interface Sci.* 322(1): 87-94.
- Kaur N., Puri R. and Jain S.K., Drug-cyclodextrin-vesicles dual carrier approach for skin targeting of anti-acne agent, *AAPS PharmSciTech*, 2010; **11**: 528-537.
- Kim J.-A., Kong C.-S., Seo Y.-W. and Kim S.-K., *Sargassum thunbergii* extract inhibits MMP-2 and -9 expressions related with ROS scavenging in HT1080 cells. *Food Chemistry*. 2010; **120**: 418-425.
- Kim S, Kim Y, Kim JE, Cho KH, Chung JH (2007) Berberine inhibits TPA-induced MMP-9 and IL-6 expression in normal human keratinocytes. *Phytomedicine* 15: 340–347.
- Kirby C. 1990. Delivery systems for enzymes. *Chem Br.* 847-851.
- Kleiner DE, Stetler-Stevenson WG (1994): Quantitative zymography: detection of picogram quantities of gelatinases. *Anal Biochem* 218: 325–329.
- Klesper E., Corwin A.H., Turner D.A. 1962. High pressure gas chromatography above critical temperatures. *J Org Chem.* 27: 700-701.
- Kletsas D (2003): Aging of fibroblasts. In: Kaul, S.C., Wadhwa, R. (Eds.), Aging of Cells in and Outside the Body. Kluwer Academic Publishers, Great Britain, pp.
- Kobayashi T.S., Hattori S. and Shinkai H., Matrix metalloproteinases-2 and -9 are secreted from human fibroblasts, *Acta Derm. Venereol.*, 2003; **83**: 105-107.
- 27-46
- Koromila G., Michanetzis G.P.A., Missirlis Y.F., Sophia G. 2006. Antimisiaris heparin incorporating liposomes as a delivery system of heparin from PET-

- covered metallic stents: Effect on haemocompatibility. *Biomaterials.* 27: 2525-2533.
- Kucharz EJ (1992) The Collagens: Biochemistry and Pathophysiology, Springer-Verlag, Berlin, pp. 7-29.
- Laguerre M., Lecomte J., Villeneuve P. 2007. Evaluation of the ability of antioxidants to counteract lipid oxidation: Existing methods, new trends and challenges. *Prog Lipid Res.* 46 : 244-282.
- Law B.A., King J.S. 1991. Use of liposomes for proteinase addition to cheddar cheese. *J Diary Res.* 52: 183-188.
- Lawrence M.J., Chauhan S., Lawrence S.M., Barlow D.J. 1996. The formation, characterisation and stability of nonionic surfactant vesicles. *STP Pharm Sci.* 6: 49-60.
- Leelapornpisid P., Chansakaow S., Chaiyasut C. and Wongwattananukul N., Antioxidant activity of some volatile oils and absolutes from Thai aromatic plants. International Workshop on Medicinal and Aromatic Plants; 2008: *Acta Horticulturae* (ISHS) 2008. p. 61-66.
- Leonards K.S. 1998. Changes in the surface charge properties of isolated cardiac sarcolemmal vesicles measured by light scattering. I. Characteristics of rat and canine preparations. *BBA-Biomembranes.* 938(2): 293-309.
- Letelier M.E., Berrios A.M., Troncoso J.C., Sandoval J.J., Holst M., Palma K., Montoya M., Miranda D., Lira. V.G. 2008. DPPH and oxygen free radicals as pro-oxidant of biomolecules. *Toxicol In Vitro.* 22(2): 279-286.
- Li X., Lu W.L., Liang G.W., Ruan G.R., Hong H.Y., Long C., Zhang Y.T., Liu Y., Wang J.C., Zhang X., Zhang Q. 2006. Effect of stealthy liposomal topotecan

- plus amlodipine on the multidrug-resistant leukaemia cells *in vitro* and xenograft in mice. *Eur J Clin Invest* 36 (6): 409-418.
- Liyana-Pathirana C.M., Shahidi F. 2007. Antioxidant and free radical scavenging activities of whole wheat and milling fractions. *Food Chem.* 101(3): 1151-1157.
- Manosroi A., Chankhampan C., Ofoghi H., Manosroi W. and Manosroi J., Low cytotoxic elastic niosomes loaded with salmon calcitonin on human skin fibroblasts. *Hum. Exp. Toxicol.*, 2012; doi: 10.1177/0960327112454892.
- Manosroi A, Jantrawut P, Akazawa H, Akihisa T, Manosroi W, Manosroi J (2010c): Transdermal absorption enhancement of gel containing elastic niosomes loaded with gallic acid from *Terminalia chebula* galls. *Pharm Biol*, In press.
- Manosroi A., Jantrawut P., Akihisa T., Manosroi W. and Manosroi J., *In vitro* antiaging activities of *Terminalia chebula* gall extract, *Pharm. Biol.*, 2010; **48**, 469-481.
- Manosroi A., Chutoprapat R., Abe M., Manosroi J. 2008. Characteristics of niosomes prepared by supercritical carbon dioxide (scCO₂) fluid. *Int J Pharm.* 352: 248-255.
- Manosroi A., Chutoprapat R., Abe M., Manosroi J. 2008. Characteristics of niosomes prepared by supercritical carbon dioxide (scCO₂) fluid. *Int J Pharm.* 352: 248-255.
- Manosroi A., Jantrawut P., Akihisa T., Manosroi W. and Manosroi J., *In vitro* antiaging activities of *Terminalia chebula* gall extract. *Pharm Biol.* 2010; **48**: 469-481.

- Manosroi A., Wongtrakul P., Manosroi J., Midorikawa U., Hanyu Y., Yuasa M., Sugawara F., Sakai H., Abe M. 2005. The entrapment of kojic oleate in bilayer vesicles. *Int J Pharm* 298, 13-25.
- Manosroi A., Wongtrakul P., Manosroi J., Sakai H., Sugawara F., Yuasa M., Abe M. 2003. Characterization of vesicles prepared with various non-ionic surfactants mixed with cholesterol. *Colloids Surf B*. 30: 129-138.
- Mayhew E., Conroy S., King J., Lazo R., Nikolopoulos G., Siciliano A., Vail W.J. High pressure continuous-flow system for drug entrapment in liposomes. Methods in Enzymology. In : Green R., Widder, K.J.. eds. Drug and Enzyme Targeting, Part B. San Diego, Academic Press. 1987. 149: 64-77.
- McCroskery PA, Richards JF, Harris J (1975): Purification and characterization of a collagenase extracted from rabbit tumours. *Biochem J* 152: 131–142.
- Mertins O., Sebben M., Pohlmann A.R., da Silveira N.P. 2005. Production of soybean phosphatidylcholine-chitosan nanovesicles by reverse phase evaporation: a step by step study. *Chem Phys Lipids*. 138: 29-37.
- Metselaar J.M., Wauben M.H., Wagenaar-Hilbers J.P., Boerman O.C., Storm G. 2003. Complete remission of experimental arthritis by joint targeting of glucocorticoids with long-circulating liposomes. *Arthritis Rheum*. 48 (7): 2059-2066.
- Michael J (2004): Quinoline, quinazoline and acridone alkaloids. *Nat Prod Rep* 21: 650–668.
- Mokhtara M., Sammour O.A., Hammada M.A., Nagia M.A. 2008. Effect of some formulation parameters on flurbiprofen encapsulation and release rates of niosomes prepared from proniosomes. *Int J Pharm*. 361: 104-111.

- Mosmann T (1983): Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays. *J Immono Methods* 65: 55–63.
- Namdeo A., Jain N.K. 1999. Niosomal delivery of 5-fluorouracil. *J Microencapsul.* 16(6): 731-740.
- Niki E., Yoshida Y., Saito Y., Noguchi N. 2005. Lipid peroxidation: Mechanisms, Oikarinen A (1990): The aging of skin: chronoaging versus photoaging. *Photodermatol Photoimmunol Photomed* 7: 3–4.
- Onwukaeme DN, Ikuegbvweha TB, Asonye CC (2007): Evaluation of phytochemical constituents, antibacterial activities and effect of exudates of *Pycanthus angolensis* Weld Warb (Myristicaceae) on corneal ulcers in rabbits. *Trop J Pharm Res* 6: 725–730.
- Osawa T. and Namiki M., A novel type of antioxidant isolated from leaf wax of *Eucalyptus* leaves, *Agr. Biol. Chem.*, 1981; **45**: 735-739
- Ozakia A, Kitanob M, Furusawac N, Yamaguchic H, Kurodaa K, Endoa G (2002): Genotoxicity of Gardenia yellow and its components. *Food and Chemical Toxicology* 40: 1603–1610.
- Padrela L., Rodrigues M.A., Velaga S.P., Matosa H.A., de Azevedo E.G. 2009. Formation of indomethacin–saccharin cocrystals using supercritical fluid technology. *Eur J Pharm Sci.* 38: 9-17.
- Paolino D., Lucania G., Mardente D., Alhaique F., Fresta M. 2005. Ethosomes for skin delivery of ammonium glycyrrhizinate: *In vitro* percutaneous permeation through human and *in vivo* anti-inflammatory activity on human volunteers. *J Control Rel.* 106(1-2): 99-110.

- Papazisis KT, Geromichalos GD, Dimitriadis KA, Korsaris AH (1997): Optimization of the sulforhodamine B colorimetric assay. *J Immunol Methods* 208: 151–158.
- patent survey. *J of Supercritical Fluids*. 20: 179.
- Pathak P., Meziani M. J., Desai T., Sun Y.P. 2006. Formation and stabilization of ibuprofen nanoparticles in supercritical fluid processing. *J of Supercritical Fluids*. 37: 279-286.
- Payne N.I., Browning I., Hynes C.A. 1986a. Characterization of proliposomes. *J Pharm Sci*. 75: 330-333.
- Payne N.I., Timmis P., Ambrose C.V., Warel M.D., Ridgway F. 1986b. Proliposomes: A novel solution to an old problem. *J Pharm Sci*. 75: 325-329.
- Perkins W.R., Minchey S.R., Ostro M.J., Taraschi T.F., Janoff A.S. 1988. The captured volume of multilamellar vesicles. *BBA - Biomembranes*. 943(1): 103-107.
- Pham H.L., Shaw P.N., Davies N.M. 2006. Preparation of immuno-stimulating complexes (ISCOMS) by ether injection. *Int J Pharm*. 310(1-2): 196-202.
- Piez KA (1985) Collagen, in: J.I. Kroschwitz (Ed.), Encyclopedia of Polymer Science and Engineering, Wiley, New York, pp. 699–727.
- Prakash A. The BP and EP microbial limit test. In : Clontz L.,ed. Microbial limit and bioburden tests: Validation approaches and global requirements, CRC press. 2001. 19(2): 1-6.
- Preethi K.C., Siveen K.S., Kuttan R. and Kuttan G., Inhibition of metastasis of B16f-10 melanoma cells in C57bl/6 mice by an extract of *Calendula officinalis* L flowers, *Asian Pac. J. Cancer Prev.*, 2010; **11**: 1773-1779.

- Rangasamy M., Ayyasamy B., Raju S., Gummadevally S., Shaik S. 2008. Formulation and *in vitro* evaluation of niosome encapsulated acyclovir. *J Pharm Res.* 1(2): 163-166.
- Ratnam D.V., Ankola D.D., Bhardwaj V., Sahana D.K. and Kumar M.N.V.R., Role of antioxidants in prophylaxis and therapy: a pharmaceutical perspective, *J. Control. Rel.*, 2006; **113**: 189-207.
- Reddy D.N., Udupa N. 1993. Formulation and evaluation of oral and transdermal preparations of flurbiprofen and piroxicam incorporated with different carriers. *Drug Dev Ind Pharm.* 9: 843-852.
- Reid R.C, Prausnitz J.M, Poling B.E. The Properties of Gases and Liquids, 4th ed., McGraw-Hill, New York. 1987.
- Reverchon E., Adami R. 2006. Nanomaterials and supercritical fluids. *J of Supercritical Fluids.* 37: 1-22.
- Reverchon E., Della Porta G. 1999. Production of antibiotic micro- and nanoparticles by supercritical antisolvent precipitation. *Powder Technol.* 106: 23.
- Reverchon E., Supercritical fluid extraction and fractionation of essential oils and related products. *The Journal of Supercritical Fluids.* 1997; **10**: 1-37.
- Rodrigues M., Peirco N., Matos H., de Azevedo E.G., Lobato M.R., Almeida A.J. 2004. Microcompsosites theophylline/hydrogenated palm oil from a PGSS process for controlled drug delivery systems. *J of Supercritical Fluids.* 29: 175-184.
- Rose P.E. 1980. Improved tables for the evaluation of sphere size distribution including the effect of section thickness. *J Micros.* 118: 135-141.
- Rout PK, Sahoo D, Misra LN (2010): Comparison of extraction methods of *Mimusops*

- elengi* L. flowers. *Industrial Crops and Products* 32: 678–680.
- Sane A., Taylor S., Sun Y.P., Thies M.C. 2003. RESS for the preparation of fluorinated porphyrin nanoparticles. *Chem Commun.* 7(21): 2720-2721.
- Santucci E., Carafa M., Covello T., Murtas E., Riccieri F.M., Alhaique F., Modesti A., Modica A., 1996. Vesicles from polysorbate-20 and cholesterol-a simple preparation and a characterisation. *STP Pharm Sci.* 6: 29-32.
- Schulz R (2007): Intracellular target of matrix metalloproteinase assisted triggered release of liposomal contents. *Bioconjugate Chem* 19: 57–64.
- Schwarz K. and Ternes W., Antioxidative constituents of *Rosmarinus officinalis* and *Salvia officinalis*. *Zeitschrift für Lebensmitteluntersuchung und -Forschung A*. 1992; **195**: 99-103
- Shahidi F. and Wanasundara P.K.J. P.D., Phenolic antioxidants, *Crit. Rev. Food Sci. Nutr.*, 1992; **32**: 67-103.
- Sharma S, Gangal S, Rauf A (2009): Lipase mediated hydrolysis of *Mimusops elengi* and *Parkinsonia aculeata* seed oils for the determination of positional distribution of fatty acids. *Industrial Crops and Products* 30: 325–328.
- Skehan P, Storeng R, Scudiero D, Monks A, McMahon J, Varren JT, Bokesch H, Kenney S, Boyd M (1990): New colorimetric cytotoxicity assay for anticancer-drug screening. *J NCI* 82: 1107–1112.
- Smith L.L., Another cholesterol hypothesis: cholesterol as antioxidant, *Free Radic. Biol. Med.*, 1991; **11**: 47-61.
- Snoek-van Beurden PA, Von den Hoff JW (2005): Zymographic techniques for the analysis of matrix metalloproteinases and their inhibitors. *Biotechniques* 38: 73–83.

- Sternlicht MD, Werb Z (2001): How matrix metalloproteinases regulate cell behaviors. *Annu Rev Cell Dev Biol* 17: 463–516.
- Suja K.P., Jayalekshmy A., Arumughan C. 2005. Antioxidant activity of sesame cake extract. *Food Chem.* 91: 213-219.
- Sun Q., Shen H. and Luo Y., Antioxidant activity of hydrolysates and peptide fractions derived from porcine hemoglobin, *J. Food Sci. Technol.*, 2011; 48: 53-60
- Sung-Yum S, Vinay KS, Niti S (2003): Mushroom tyrosinase: Recent prospects. *J Agric Food Chem* 51: 2837–2853.
- Szoka F., Papahadjopoulos D. 1978. Procedure for preparation of liposomes with large internal aqueous space and high capture by reverse-phase evaporation. *Proc Natl Acad Sci USA*. 75(9): 4194-4198.
- Tachibana Y, Kikuzaki H, Hj-Lajis N, Nakatani N (2001): Antioxidant activity of carbazoles from *Murraya koenigii* leaves. *J Agric Food Chem* 49: 5589–5594.
- Talsma H., Van Steenbergen M.J., Borchert J.C.H., Crommelin D.J.A. 1994. A novel technique for the one step preparation of liposomes and non-ionic surfactant vesicles without use of organic solvents. Liposomes formation in a continuous gas stream: “The bubble” method. *J Pharm Sci.* 83(3): 276-280.
- Touitou E., Dayan N., Bergelson L., Godin B., Eliaz M. 2000. Ethosomes—novel vesicular carriers for enhanced delivery: characterization and skin penetration properties. *J Control Release*. 65(3): 403-418.
- Tsaia TR, Tsengb TY, Chenc CF, Tsai T. (2002): Identification and determination of geniposide contained in *Gardenia jasminoides* and in two preparations of mixed traditional Chinese medicines. *Journal of Chromatography A* 961: 83–88.

- Uchegbu I., Double J.A., Turton J.A., Florence A.T. 1995. Distribution, metabolism and tumoricidal activity of doxorubicin administered in sorbitan monostearate (Span 60) niosomes in the mouse. *Pharm Res.* 12: 1019-1024.
- Uchegbu I.F., Vyas S.P. 1998. Non-ionic surfactant based vesicles (niosomes) in drug delivery. *Int J Pharm.* 172: 33-70.
- Uchegbu IF, Florence AT (1995): Nonionic surfactant vesicles (niosomes)-physical and pharmaceutical chemistry. *Adv Colloid Interf Sci* 58: 1–55.
- Van Hoogeveest P., Frankhauser P. An industrial liposomal dosage form for muramyl – tripeptide-phosphatidylethanolamine (MTP-PE). In: Lopez-Berestein G., Fidler I.J., eds. *Liposomes in the therapy of infectious disease and cancer*, New York, Alan R. Liss. 1989: 453-466.
- Varani J, Dame MK, Rittie L, Fligiel SE, Kang S, Fisher GJ, Voorhees JJ (2006): Decreased collagen production in chronologically aged skin: roles of age-dependent alteration in fibroblast function and defective mechanical stimulation. *Am J Pathol* 168: 1861–1868.
- Vasconcelos I.B., Silva T.G., Militão G.C.G., Soares T.A., Rodrigues N.M., Rodrigues M.O., Costa Jr. N.B., Freire R.O. and Junior S.A., Cytotoxicity and slow release of the anti-cancer drug doxorubicin from ZIF-8, *RSC Adv.*, 2012, 2: 9437-9442
- Villalobo A. 1991. Reconstitution of ion-motive transport ATPases in artificial lipid membranes. *Biochim Biophys Acta.* 1071: 1-48.
- Wang F., Wang, Y.C., Yan L.F., Wang J. 2009. Biodegradable vesicular nanocarriers based on poly(3-caprolactone)-block-poly(ethyl ethylene phosphate) for drug delivery. *Polymer.* 50: 5048-5054.

- Waninge R., Nylander T.P., Bergenståhl B. 2003. Milk Membrane Lipid Vesicle structures studied by Cryo-TEM. *Colloid Surfaces B*. 31: 257-264.
- Williams CA, Grayer RJ (2004): Anthocyanins and other flavonoids. *Nat Prod Rep* 21: 539–573.
- Wu H.T., Lee M.J., Lin H. 2005. Nano-particles formation for pigment red 177 via a continuous supercritical anti-solvent process. *J of Supercritical Fluids*. 33: 173.
- Xua M, Suna Q, Sua J, Wang J, Xua C, Zhang T, Suna Q (2008): Microbial transformation of geniposide in *Gardenia jasminoides* Ellis into genipin by *Penicillium nigricans*. *Enzyme and Microbial Technology*, VoL 42, 440–444.
- Yang T., Cui F.D., Choi M.K., Cho J.W., Chung S.J., Shim C.K., Kim D.D. 2007. Liposome Enhanced solubility and stability of PEGylated liposomal paclitaxel: *In vitro* and *in vivo* evaluation. *Int J Pharm*. 338: 317–326.
- Yin L, Morita A, Tsuji T (2000): Alterations of extracellular matrix induced by tobacco smoke extract. *Arch Dermatol Res* 292: 188–194.
- Yoshida Y. and Niki E., Antioxidant effects of phytosterol and its components, *J. Nutr. Sci. Vitaminol.*, 2003; 49: 277-280.
- Yoshioka T., Sternberg B., Florence A.T. 1994. Preparation and properties of vesicles (niosomes) of sorbitan monoesters (Span 20, 40, 60 and 80) and a sorbitan triester (Span 85). *Int. J. Pharm.* 105:1-6.
- Yu WH, Woessner JF (2001): Heparin-enhanced zymographic detection of matrilysin and collagenases. *Anal Biochem* 293: 38–42.
- Zasadzinski J.A., Kisak E., Evans C. 2001. Complex vesicle-based structures. *Curr Opin In Colloid In*. 6: 85-90.
- Zheng X, Yang D, Liu X, Wang N, Li B, Cao H, Lu Y, Wei G, Zhou H, Zheng J

- (2010): Identification of a new anti-LPS agent, geniposide, from *Gardenia jasminoides* Ellis, and its ability of direct binding and neutralization of lipopolysaccharide *in vitro* and *in vivo*. *International Immunopharmacology* 10: 1209–1219.
- Zhou T, Fan G, Hong Z, Chai Y, Wu Y (2005): Large-scale isolation and purification of geniposide from the fruit of *Gardenia jasminoides* Ellis by high-speed counter-current chromatography. *Journal of Chromatography A* 1100: 76–80.
- Zhu J., Yan F., Guo Z., Marchant R.E. 2005. Surface modification of liposomes by saccharides: vesicle size and stability of lactosyl liposomes studied by photon correlation spectroscopy. *J Colloid Interface Sci.* 289(2): 542-50.
- Zucker D., Marcus D., Barenholz Y., Goldblum A. 2009. Liposome drugs' loading efficiency: A working model based on loading conditions and drug's physicochemical properties. *J. Control Release.* 139: 73-80.