



DAFTAR PUSTAKA

- Abidin, Z., 1985, Dasar-dasar Pengetahuan Tentang Zat Pengatur Tumbuh, Penerbit Angkasa, Bandung, 57-60.
- Becker, C.A., 1965, Flora of Java, NVP. Noordhoff, Groningen, The Netherlands, 464-472.
- Birner, J., 1969, Determination of Total Steroid Bases in Solanum species, J. Pharm. Sci., 58, 258-259.
- Bhatt, P.N., Bhatt, D.P. and Sussex, I., 1983, Studies on Some Factors Affecting Solasodine Contents in Tissue Cultures of Solanum nigrum, Phisiol. Plant. 57 : 159-162.
- Bonner, W.D. 1965, Plant Biochemistry, Academic Press, New York and London, 89-103.
- Bradley, V., Collins, D.J., Crabbe, P.G., Eastwood, F.W., Irvine, M.C., Swan, J.M., and Symon, D.E., 1978, A Survey of Australian Solanum Plant for Potentially Useful Sources of Solasodine, Aust. J. Bot., 26, 723-754.
- Cham, B.E. and Wilson, L., 1986, HPLC of Glykoalkaloids from Solanum sodomaeum, Plant. Med., 59-61.
- Chandler, S. and Dodds, J., 1983, Solasodine Production in Rapidly Proliferating Tissue Cultures of Solanum laciniatum, Ait, Plant Cell Reports, 2, 60-72.
- Chandler, S.F. and Dodds, J.H., 1983a, The Effect of Phosphate, Nitrogen and Sucrose on The Production of Phenolics and Solasodine in Callus Culture of Solanum laciniatum, Plant Cell Reports, 2, 205-208.
- Connors, K.A., 1975, A Textbook of Pharmaceutical Analysis, 2nd ed., John Wiley & Sons Inc., New York, 216-221, 378-379, 421-427.
- Cook, R.P., 1958, Cholesterol Chemistry, Biochemistry, and Pathology, Academic Press, Inc., Publishers, New York, 211-225.



- Cordell, G.A., 1981, Introduction to Alkaloids A Biogenetic Approach, John Wiley & Sons, Inc., New York, 59-76, 891-921.
- Dalimonthe, S.L., 1987, Kultur Jaringan Sebagai Sarana untuk Menghasilkan Metabolit Sekunder, dalam "Risalah Seminar Nasional Metabolit Sekunder", (Suwijiyo P., Didik G. dan C.J. Soegihardjo, ed.), PAU Bioteknologi UGM, 157-160.
- Didik Gunawan, 1989, Inventarisasi Tumbuhan Penghasil Bahan Baku Pil KB di Daerah Sleman Serta Skrening Steroidnya, Lap. Penelitian, 1-23.
- Dixon, R.A., 1985, Isolation and Maintenance of Callus and Cell Suspension Cultures, in "Plant Cell Culture", A Practical Approach (R.A. Dixon, ed.), IRL Press Oxford, 1-20.
- Dodds, J.H. and Robert, L.W., 1982, Experiments in Plant Tissue Cultures, Cambridge Univ. Press, New York, 1-6, 37-41, 54-55.
- Endang Hanani, 1988, Pengaruh Manipulasi Media Terhadap Kandungan Alkaloid Steroid dalam Kalus Solanum aculeatissimum, Jacq., Tesis, UGM Yogyakarta.
- George, R.P. and Sherrington, P.D., 1984, Plant Propagation by Tissue Culture, Exegetics Limited, England, 334-339.
- Heble, M.R., Narayanaswami, S. and Chadha, M.S., 1968, Solasonine in Tissue Culture of Solanum xanthocarpum, Naturwiss., 55, 350-351.
- Heble, M.R., Narayanaswami, S. and Chadha, M.S., 1971, Hormonal Control of Steroid Synthesis in Solanum xanthocarpum Tissue Cultures, Phytochem., 10, 2393-2394.
- Heftmann, E. and Mosettig, E., 1960, Biochemistry of Steroids, Reinhold Publishing Corporation, New York, 1-9, 46-47, 53-56.
- Henry, T.A., 1949, The Plant Alkaloids, 4th ed., The Blakiston Company, London, 666-668.



UNIVERSITAS
GADJAH MADA

- Hosoda, N., Hitoshi, I. and Yatazawa, M., 1979, Some Accounts on Culture Conditions of Callus Tissues of Solanum laciniatum, Ait for Producing Solasodin, Agric. Biol. Chem., 43, 1745-1748.
- Hosoda, N. and Yatazawa, M., 1979, Sterol, Steroidal Saponin and Steroidal Alkaloid in Callus Culture of Solanum laciniatum, Ait, Agric. Biol. Chem., 43, 821-825.
- Indrayanto, G., 1988, Kultur Jaringan Tanaman Suatu Petunjuk Praktis Bidang Farmasi, PAU Bioteknologi UGM, 2-5, 9-11, 54-55.
- Indrayanto, G., 1986, Prospek Kultur Jaringan Tanaman pada Bidang Farmasi, Bulletin ISFI Jatim, Vol.17, No.1, 12-20.
- Indrayanto, G., Cholies, N. and Wahyudi, 1985, Influence of Fruit Size of Solanum wrightii on its Solasodine Content, Planta Medica, 470.
- Isnaeni, Indrayanto, G. and Sutarjadi, 1986, Sterols in Callus Cultures of Solanum mammosum, Planta Medica, 1-2.
- Isnaeni dan Wahyu Utami, 1987, Kandungan Metabolit Sekunder dalam Kultur Jaringan Solanum spp., dalam "Risalah Seminar Nasional Metabolit Sekunder", PAU Bioteknologi UGM, Yogyakarta, 163-171.
- Jain, S.C and Sahoo, S., 1981, Isolation and Characterization of Steroidal Saponin and Glykoalkaloid from Tissue Cultures of Solanum verbascifolium, Linn, Chem. Pharm. Bull., 29, 1765-1767.
- Kadkade, P.G. and Madrid, T.R., 1977, Glykoalkaloid in Callus Cultures of Solanum aculeatissimum, Naturwiss., 64, 147.
- Khanna, P., Amin Uddin, Sharma, G.L., Mannot, S.K. and Rathore, A.K., 1976, Isolation and Characterization of Saponin and Solasodine from In Vitro Tissue Cultures



of Some Solanaceous Plants, Indian J. Exp. Biol., 14, 694-696.

- Khanna, P. and Mannot, S.K., 1976, Effect of Cholesterol on Suspension Culture of Solanum xanthocarpum, Schrad, Indian J. Exp. Biol., 14, 631-633.
- Khanna, P., Mannot, S.K. and Rathore, A.K., 1978, Isolation and Characterization of Sapogenin and Sterol from In Vitro Static Tissue Cultures of Some Solanaceae Species, Indian J. Exp. Biol., 16, 616-618.
- Kokate, C.K. and Radwan, S.S., 1979, Enrichment of Solanum khasianum Callus Generating Rootlets with Steroidal Glykoalkaloids, Z. Naturforsch., 634-636.
- Lindsey, K. and Yeoman, M.M., 1985, Dynamics of Plant Cell Cultures, in "Cell Culture and Somatic Cell Genetics of Plants" (I.K. Vasil, ed.), Vol.2, Academic Press Inc., London, 61-80.
- Manitto, P., 1981, Biosynthesis of Natural Products, Ellis Horwood Ltd., Publishers, England, 314-320.
- Mursyidi, A., 1985, Statistika Farmasi dan Biologi, Ghalia Indonesia, Jakarta, 30-33.
- Pecsok, R.L., Shields, L.D., Cairns, T. and McWilliam, I.G., 1976, Modern Methods of Chemical Analysis, 2nd ed., John Wiley & Sons, New York, 133-139.
- Pierik, R.L.M., 1987, In Vitro Culture of Higher Plants, Martinus Nijhoff Publishers, Dordrecht, Boston, Lancaster, 60-76, 107-125.
- Pulle, A.A., 1952, Compendium van de Terminologi, Nomenclatur en Systematiek der Zaadplanten, Utrecht-N.V.A Oesthoek's Uitg Mij.
- Robinson, T., 1983, Metabolic Pathways The Organic Constituents of Higher Plants, Cordus Press, North Amherst, 153-184.
- Shoppee, C.W., 1964, Chemistry of The Steroids, 2nd ed., Butterworths, London, 436-437.



- Silverstein, R.M., Baster, G.C. and Marril, T.C., 1981, Spectrometric Identification of Organic Compounds, 4th ed., John Wiley & Sons, New York.
- Soegihardjo, C.J., 1988, Mencari Kondisi Terbaik untuk Pertumbuhan Kalus pada Kultur Jaringan *Solanum sp.*, No.4, Lap. Penelitian.
- Soegihardjo, C.J., 1990, Produksi Metabolit Sekunder dengan Kultur Jaringan, Petunjuk Laboratorium, PAU Bioteknologi, UGM Yogyakarta.
- Staba, E.J., 1980, Plant Tissue Culture as a Source of Biochemicals, CRC Press, Inc., Florida, 59-97.
- Stahl, E., 1985, Analisis Obat secara Kromatografi dan Mikroskopi, ITB, Bandung, 3-18.
- Stahl, E., 1969, Thin Layer Chromatography A Laboratory Handbook, 2nd ed., Springer Verlag, Berlin.
- Steenis, C.G.G.J., 1975, Flora untuk Sekolah di Indonesia, PT. Pradnya Paramita, Jakarta, 375-377.
- Suryowinoto, M., 1985, Budidaya Jaringan dan Manfaatnya, Fak. Biologi UGM, Yogyakarta, 1-30.
- Tarigan, P., 1980, Beberapa Aspek Kimia Sapogenin Steroid pada Tumbuhan di Indonesia, Alumni, Bandung.
- Tjitrosoepomo, G., 1970, Morfologi Tumbuhan (Susunan luar tumbuh-tumbuhan berkormus beserta petunjuk mencandra tumbuh-tumbuhan), Fak. Biologi UGM. Yogyakarta, 3, 186-194.
- Torssel, K.B.G., 1983, Natural Product Chemistry 'A Mechanistic and Biosynthetic Approach to Secondary Metabolism', John Wiley & Sons Limited, New York, 311-313.
- Trease, G.E. and Evans, W.C., 1978, Pharmacognosy, 7th ed., Bailliere Tindall, London, 475-479.
- Tyler, E.V., Brady, L.R. and Robbers, J.E., 1988, Pharmacognosy, 9th ed., Lea & Febiger, Philadelphia, 57-68, 156-186.



Vasil, I.K., 1985, Cell Culture and Somatic Cell Genetics of Plants, Vol.2, Academic Press, Inc., New York.

West, E.S. and Todd, W.R., Textbook of Biochemistry, 3rd ed., The Macmillan Company, New York, 162-163, 924-937.

Wetherel, D.F., 1982, Introduction In Vitro Propagation, Avery Publishing Group Inc., Wayne, New Jersey.