

DAFTAR PUSTAKA

- Akyilmaz, E, & Dinckaya, E. (2005). A Amperometric Microbial Biosensor Development Based on *Candida Tropicalis* Yeast Crlls for Sensitives Determination of Ethanol. *Biosensors and Bioelectronics*. 20: 1263 – 1269.
- Alberty RA, Cornish-Bowden A, Gibson QH et al. (1996). Recommendations for Nomenclature and Tables in Biochemical Thermodynamics. *European Journal of Biochemistry*. 240: 1-14.
- Anwar A., Qader S. A. U., Raiz A., Iqbal S. dan Azhar A. (2009). Calcium Alginate: A Support Material for Immobilization of Proteases from Newly Isolated Strain of *Bacillus subtilis* KIBGE-HAS. *World Applied Science Journal*. 7: 1281-1286.
- Barhoumi, H., Maaref, A., Martelet, C., Jaffrezic, N., Mousty, C., Cosnier, S., et al. (2004). *Characterisation of a New Urea Biosensor Using Different Synthetic Latex for Urease Immobilisation*. www.sparkdesigns.co.uk/biopapers'04/papers/bs134.pdf
- Basset, J., R.C. Denney, G.H Jeffrey, dan J. Mendhom. (1994). *Buku Ajar Vogel Kimia Analisis Kuantitatif Anorganik*. Jakarta: EGC.
- Belkin, S. (2003). Microbial Whole-Cell Sensing System of Environmental Pollutans. *Current Opinion in Microbiology*. 6: 206-212.
- Brodelius, P.E. (1987). *Immobilized Plant Cells, in: Enzymes and Immobilized Cell in Biotechnology*,(Laskin, A.I., ed.). 109-148. The Benyamin / Commings Publishing Company. Inc. London.
- Chibata, I. (1979). Immobilize Enzymes. *Research and Development*. Tokyo: Kondansha LTD.
- Cottrel, Kovacs P. (1980). Alginats . Di dalam : Davidson RI, editor. *Hand Book Of Water Soluble Gums and Resin*. New York: Mc Graw-Hill Book Co.
- Day, R.A. and A.L. Underwood. Alih bahasa oleh Sopyan Iis. (2002). *Analisis Kimia Kuantitatif Edisi Keenam (Quantitative Analysis Sixth Edition)*. Jakarta: Erlangga.
- Debataraja, A., N.F. Soelaiman, dan Hiskia. (2011). Fabrikasi elektroda amperometrik sensor dengan metode teknologi screen tension dan deflection thick film. *Jurnal Ilmiah Elite Elektro*. 2(1): 55-56.
- D'Souza S. F. (2001). Immobilization And Stabilization Of Biomaterials For Biosensor Applications. *Applied Biochem Biotechnology*. 96 (1-3), 225-38.
- Eggins, B. R. (1996). *Chemical Sensors and Biosensors*. New York: John Wiley & Sons.

- Fachruddin, L. (2000). *Budi Daya Kacang-kacangan*. Yogyakarta: Kanisius.
- Fardiaz, S. (1992). *Mikrobiologi Pangan I*. Jakarta: Gramedia Pustaka Utama.
- Fatoni, A., A. Numnuam, P. Khanatharana, W. Limbut, C. Thammakhet, and P. Thavarungkul. (2013). A Highly Stable Oxygen-Independent Glucose Biosensor Based on Chitosan-albumin Cryogel Incorporated with Carbon Nanotubes and Ferrocene. *Sensors and Actuators B: Chemical*. 185 : 725-734.
- Gandjar, I. G. Dan A. Rohman. (2008). *Kimia Farmasi Analisis*. Yogyakarta: Pustaka Pelajar.
- Fauziah, B. (2012). Optimasi Analitik Biosensor immobilisasi Urease dalam Membran Polianilin. *Saintis*. 1: 65 – 76.
- Gulay S. (2009). Immobilization of Thermophilic Recombinant Esterase Enzyme by Entrapment in Coated Ca-Alginate Beads. *Thesis*. Turki: Izmir Institute of Technology.
- Gupta B. (2000). *Urea Biosensor based on Conducting Polymer Transducer, Biosensors*. Pier Andrea Serra. India. Intech.
- Harmita. (2004). Petunjuk Pelaksanaan Validasi Metode dan Cara Perhitungannya. *Review Artikel Majalah Ilmu Kefarmasian*: 1(3): 117-135.
- Harper. (2003). *Harper's Biochemistry 25th Edition*. Jakarta: Buku Kedokteran EGC.
- Hedayatollah, G., Ahmad, M. R. and Hossein, E. (2004). A Conductrimetric Urea Biosensor by Direct Immobilization of Urease on Pt Electrode. *Iranian Journal of Chemistry and Chemical Engineering* 23 (2): 55-63.
- Heyne, K. (1987). *Tumbuhan Berguna Indonesia*. Bogor: Badan Penelitian dan Pengembangan Kehutanan.
- ISP. (2001). Alginates. *Alginate for Pharmaceutical Application*. Code: PHARM/ACG/0901. 6 pages.
- Jamil, C. A. Z. (2007). *Kimia Analisa Untuk Teknik Kimia*. Banda Aceh: Syiah Kuala University Press. 264-265.
- Kaban, J., H. Bangun, Meriaty, dan H. R. Brahmana. 2005. Pembuatan Serta Karakteristik Membran Haemodialisis melalui Reaksi antara ALginat dengan Kalsium Klorida dan Magnesium Klorida. *Jurnal Komunikasi Penelitian*, 17 (15) : 89-97.
- Kuswandi, B. (2001). "Prospek Pengembangan Sensor Kimia dan Biosensor Berbasis Serat Optik di Indonesia". Dalam *Makalah Seminar Kimia FMIPA UNEJ*. 1-7. Jember : Universitas Jember.

- Laurinavicius V, Razumiene J, Ramanavicius A, Ryabov AD. (2004). Wiring of PQQ dehydrogenase. *Biosensors and Bioelectronics*. 20:1217-1222.
- Lehninger, A. L. (1982). *Dasar-Dasar Biokimia Jilid II*. Jakarta: Erlangga.
- Marks, D. B., Allan D. Marks, Collen M. Smith. (2000). *Biokimia Kedokteran Dasar*. Jakarta: EGC.
- Masubah, K. (2016). Amobilisasi Enzim Lipase Jamur Tiram pada Kalsium Alginat sebagai Biokatalis Dalam Sintesis Lauril Dietanolamida. *Skripsi*. Semarang: Universitas Negeri Semarang.
- Miller, J. C. dan Miller, J. N. (1991). *Statistics for Analytical Chemistry*. England: Ellis Horwood, Ltd.
- Modolo, L. V., Aline X. de Souza, Lívia P. Horta, De' bora P. Araujo, Angelo de Fa'tima. (2015). An overview on the potential of natural products as ureases inhibitors: A review. *Journal of Advanced Research* 6, 35–44.
- Morch, Y.A. (2008). Novel Alginate Microcapsules for Cell Therapy. *Thesis*. Norwegian University of Science and Technology. Norwegian.
- Nahhal, Issa M., S.M. Zourab, F.S. Kodeh, and A.I. Qudaih, (18 Juli 2012). "Thin film optical BTB pH sensors using sol-gel method in presence of surfactants", *International Nano Letters*, 2 (16): 3.
- Panpae K., Wiyok N., dan Kanthiwivorn N. (2012). Development of urease immobilization using poly(acrylonitrile)/chitosan composite materials. *Journal of Chemistry England*. 6:726-731.
- Perdana, D. N. (2013). Amobilisasi dan Karakterisasi Enzim Lipase dari Bakteri *Azospirillum* sp. PRDI menggunakan Matriks Kalsium Alginat. *Skripsi*. Purwokerto: Jurusan Fakultas Sains dan Teknik, Universitas Jenderal Soedirman.
- Putri, D. D. (2017). Ekstraksi dan Karakterisasi Enzim Urease dari Kacang Tolo (*Vigna unguiculata* subsp. *unguiculata* L.). *Skripsi*. Purwokerto: FMIPA, Universitas Jenderal Soedirman.
- Resminingsih E. (2005). Amobilisasi Lipase *Bacillus subtilis* dalam Ca-alginat. *Skripsi*. Malang: Universitas Brawijaya.
- Riyanto. (2014). *Validasi & Verifikasi Metode Uji*. Yogyakarta: Deepublish.
- Rodriguez, M.C., Rivas, G.A. (2002). Glassy Carbon Paste Electrode Modified with Polyphenol Oxidase Analytical Applications. *Analitica Chimica Acta*. 459: 43-51.
- Rohman, A. (2007). *Kimia Farmasi Analisis*. Yogyakarta: Pustaka Pelajar.

- Rowe, R.C., Sheskey P.J., & Owen, S.C. (2009). *Handbook of Pharmaceutical Excipient 6th edition*. London: Pharmaceutical Press and American pharmacists Association.
- Rukmana, H. R. dan Oesman. (2000). *Budidaya dan Prospek Usaha Tani Kacang Tunggak*. Yogyakarta: Penerbit Kanisius.
- Sabnis, R. W., 2007. *Handbook of Acid-Base Indicators*. CRC Press. ISBN 0-8493-8218-1.
- Samadi, B. (2003). *Usaha Tani Kacang Panjang*. Yogyakarta: Kanisius.
- Sawitri, M. E., Abdul, M., dan Siti, K. Z. (2008). Pengaruh CaCl₂ sebagai Cross Linked Agent terhadap Sifat Fisik dan Kimia Edible Film Protein Whey. *Jurnal Ilmu dan Teknologi Hasil Ternak*. 3: 50-56.
- Selvamurugan C., Lavanya A. dan Sivasankar B., (2007). A Comparative Study on Immobilization of Urease on Different Matrices. *Journal of scientific & Industrial Research*. 66: 655-659.
- Sherwood, L. (2001). *Fisiologi Manusia dari Sel ke Sistem, Edisi 2*. Jakarta: EGC.
- Skoog, D. A. (1994). *Principles of Analysis 5th Edition*. Philadelphia: Saunders College Publishing.
- Smith, JE. (1990). *Prinsip Bioteknologi*. Sumantri B, Subono A, Penerjemah;. Jakarta: PT. Gramedia.
- Sun, J., and H. Tan (2013). Alginate-Based Biomaterials for regenerative Medicine Applications. *Materials*. 6: 1285-1309.
- Suyono, S., dan Djauzi, S. (1994). *Penyakit Degeneatif dan Gizi Lebih*. Jakarta: Widya Karya Pangan dan Gizi V, LIPI.
- Trustinah. (1993). Biologi Kacang Tunggak. *Monograf Balitkabi*. 3: 1-19.
- Wagenknecht, R. J. (1963). *Handbook of Preparative Inorganic Chemistry, 2nd Ed.* New York: Academic Press.
- Wandrey, C. (2005). Polyelectrolytes and Biopolimer. *Materials Science and Engineering*. Ecole Polytechnique Federale De Lausame. 1-37.
- Widhiastono, Bambang. (1993). Biosensor untuk Analisis Urea Berdasarkan pada Aplikasi Enzim Urease dan Elektroda Tungsten. *Jurnal Kimia Terapan Indonesia*. 3: 1.
- Winarno, F.G. (1986). *Enzim Pangan dan Gizi*. Jakarta: PT. Gramedia Pustaka Utama.
- Yu Lei, W. Chen & A. Mulchandani. (2006). Microbial Biosensor: Review. *Analytica Chimica Acta*. 568: 200-210.

Zaborsky OR. (1973). *Immobilized Enzyme*. Cleveland: CRC Press Inc.

Zusfahair, A. Fatoni, Dian R. N., & Dania. D. P. (2017). Penentuan Sifat Biokimia Enzim Urease dari Kacang tolo (*Vigna Unguiculata Subsp. unguiculata L.*). *Seminar Nasional “Pengembangan Sumberdaya Perdesaan dan Kearifan Lokal Berkelanjutan VII”*. LPPM Unsoed.

Zusfahair, Dian R. N., Dwi Kartika, Amin Fatoni, and Indah P., (2017). Immobilization and Caracterization of *Bacillus thuringiensis* HCB6 Amylase in Calcium Alginate Matriks. *Molekul*. 12 (1): 70-77.

