

## DAFTAR PUSTAKA

- Adeeyinwo, C., Okorie, N., Idowu, G., 2013, Basic Calibration of UV/ Visible Spectrophotometer. *Int. J. Sci. Technol*, **2** (3) : 247-251.
- Aliyah, 2017, Pengembangan Biosensor Dengan Amobilisasi Escherichia Coli Sebagai Bioreseptor Untuk Deteksi Toksikan Kadmium Dan Arsen Di Air Minum, *Skripsi*, Jurusan Farmasi Universitas Jenderal Soedirman, Banyumas.
- Araujo, P., 2009. Key aspects of analytical method validation and linearity evaluation. *J. Chromatogr. B*, **877**, 2224–2234.
- Bajpai, S.K., Sharma, S., 2004, Investigation of swelling/degradation behaviour of alginate beads crosslinked with Ca<sup>2+</sup> and Ba<sup>2+</sup> ions. *React. Funct. Polym.* **59**: 129–140.
- Bernhoft, R.A., 2012, Mercury Toxicity and Treatment: A Review of the Literature, *J. Environ. Public Health*. **2012** : 1-10.
- Futra, D., Heng, L., Ahmad, A., Surif, S., Ling, T., 2015. An Optical Biosensor from Green Fluorescent Escherichia coli for the Evaluation of Single and Combined Heavy Metal Toxicities. *Sensors*, **15** (6) : 12668–12681.
- GE, 2012, *Spectrophotometry Handbook*, imagination at work, UK.
- Giljanović, J., Brkljača, M., Prkić, A., 2011, Flow Injection Spectrophotometric Determination of N-Acetyl-L-cysteine as a Complex with Palladium(II), *Molecule*, **16** (12) : 7224–7236.
- Hadi, H., 2012, Flow Injection Determination Of Salbutamol Using A Solid-Phase Reactor Containing Lead (Iv) Dioxide Immobilized, *Int. J. Pharm. Chem*, **2** (3): 61–66.
- Harmita, H., 2012, Petunjuk Pelaksanaan Validasi Metode Dan Cara Perhitungannya, *Pharm. Sci. Res*, **1** (3) : 117–135.
- Istarani, F., S. Pandebesie, E., 2014, Studi Dampak Arsen (As) dan Kadmium (Cd) terhadap Penurunan Kualitas Lingkungan, *J. Tek. Pomits*, **3** (1) : 230–9271.
- Jaishankar, M., Tseten, T., Anbalagan, N., Mathew, B.B., Beeregowda, K.N., 2014, Toxicity, mechanism and health effects of some heavy metals, *Interdiscip. Toxicol*, **7** (6) : 60–72.
- Jarzyńska, G., Falandysz, J., 2011, The determination of mercury in mushrooms by CV-AAS and ICP-AES techniques, *J. Environ. Sci. Health Part A*, **46** (6) : 569–573.
- Junaidi, 2015, Menghitung Nilai Distribusi F, Distribusi t dan Distribusi r dengan Microsoft Office Excel, ResearchGate, Fakultas Ekonomi dan Bisnis Universitas Jambi: Seri Tutorial Analisis Kuantitatif, 2014 :1-4
- Kazemi-Darsanaki, R., Azizzadeh, A., Nourbakhsh, M., Raeisi, G., AzizollahiAliabadi, M., 2012, Biosensors: Functions and Applications, *J. Biol. Today's World* , **2** (1) : 20–23.
- Klamtet, J., 2006. Reverse Flow Injection Analysis for Determination of Manganese(II) in Natural Water, *NU Sci. J*, **2** (2) : 165–173.
- LH, K., 2015, *Statistik Kementrian Lingkungan Hidup Dan Kehutanan*, Kemen LH, Jakarta.

- Medeiros, R.A., Lourenção, B.C., Rocha-Filho, R.C., Fatibello-Filho, O., 2010, Simple Flow Injection Analysis System for Simultaneous Determination of Phenolic Antioxidants with Multiple Pulse Amperometric Detection at a Boron-Doped Diamond Electrode, *Anal. Chem*, **82** (20) : 8658–8663.
- Nomanbhay, S.M., Hussain, R., 2015, Immobilization of Escherichia coli mutant strain for efficient production of bioethanol from crude glycerol, *J. Appl. Sci*, **15** (3) : 415–430.
- Perkampus, H.-H., 2013, *UV-VIS Spectroscopy and Its Applications*, Springer Science & Business Media.
- Riyanto, 2014, *Validasi dan verifikasi metode uji*, deepublish, Yogyakarta.
- Ruzicka, J.J., 2016, From continuous flow analysis to programmable Flow Injection techniques. A history and tutorial of emerging methodologies, *Talanta*, **158** : 299–305.
- Sanaan Jabbar, H., 2017, Flow injection determination of diclofenac sodium in pharmaceutical formulations based on its inhibiting effect on the chemiluminescent reaction of basic permanganate–luminol, *Zanco J. Pure Appl. Sci*, **29** (1) :11-22.
- Sánchez, J., Castillo, E., Corredor, P., Ágreda, J., 2011, Determination of Mercury by Anodic Stripping Voltammetry in Aqua Regia Extracts, *Port. Electrochimica Acta*, **29** (3) : 197–210.
- Selid, P.D., Xu, H., Collins, E.M., Striped Face-Collins, M., Zhao, J.X., 2009, Sensing Mercury for Biomedical and Environmental Monitoring, *Sensors*, **9** (7) : 5446–5459.
- Silva, W.C., Pereira, P.F., Marra, M.C., Gimenes, D.T., Cunha, R.R., Silva, R.A.B. da, Munoz, R.A.A., Richter, E.M., 2011., A Simple Strategy for Simultaneous Determination of Paracetamol and Caffeine Using Flow Injection Analysis with Multiple Pulse Amperometric Detection, *Electroanalysis*, **23** (12) : 2764–2770.
- Siregar, T., Tri Murtini, J., 2008, Kandungan Logam Berat pada Beberapa Lokasi Perairan Indonesia pada Tahun 2001 sampai dengan 2005., *Squalen Bull. Mar. Fish. Postharvest Biotechnol*, **3** : 7.
- Stevenson, K., McVey, A.F., Clark, I.B.N., Swain, P.S., Pilizota, T., 2016, General calibration of microbial growth in microplate readers, *Sci. Rep*, **6** (38828) :1-7.
- Su, L., Jia, W., Hou, C., Lei, Y., 2011, Microbial biosensors: a review, *Biosens. Bioelectron*, **26** (5) : 1788–1799.
- Tahir, T.F., Salhin, A., Ghani, S.A., 2012, Flow Injection Analysis of Mercury Using 4-(Dimethylamino) Benzaldehyde-4-Ethylthiosemicarbazone as the Ionophore of a Coated Wire Electrode, *Sensors*, **12** (11) : 4968-14982.
- Tai, C.-Y., Jiang, S.-J., Sahayam, A.C., 2016, Determination of As, Hg and Pb in herbs using slurry sampling flow injection chemical vapor generation inductively coupled plasma mass spectrometry, *Food Chem*, **192** : 274–279.
- Tchounwou, P.B., Yedjou, C.G., Patlolla, A.K., Sutton, D.J., 2012, Heavy Metal Toxicity and the Environment, in: Molecular, Clinical and Environmental Toxicology, Experientia Supplementum, *Springer, Basel*, **1**: 133–164.
- Vicentini, F.C., Suarez, W.T., Cavalheiro, É.T.G., Fatibello-Filho, O., 2012. Flow-injection spectrophotometric determination of captopril in

- pharmaceutical formulations using a new solid-phase reactor containing AgSCN immobilized in a polyurethane resin. *Braz. J. Pharm. Sci.*, **48** : 325–333.
- Wasito, H., Fatoni, A., Hermawan, D., Aliyah, Mutiara, R., 2016. Amobilisasi Escherichia coli Dalam Kalsium Alginat Sebagai Bakteri Biosensor, *Prosiding Seminar Nasional dan Call for Papers "Pengembangan Sumber Daya Perdesaan dan Kearifan Lokal Berkelanjutan VI"* ,24-25 November 2016, Purwokerto.
- Wilson, J.S., 2005, *Sensor technology handbook*, Elsevier, Amsterdam; Boston.
- Yao, X., Zhang, J., Li, J., 2011, Flow Injection Determination of Tramadol Based on Its Sensitizing Effect on the Chemiluminescent Reaction of Permanganate-Sulfite, *Am. J. Anal. Chem.*, **02** (7) : 768–775.
- Zhai, J., Yong, D., Li, J., Dong, S., 2013, A novel colorimetric biosensor for monitoring and detecting acute toxicity in water, *The Analyst*, **138** (2) : 702–707.
- Zhang, G., Meng, Z., Ma, H., 2012, A simple flow-injection chemiluminescence method for the determination of trace pentavalent vanadium in water samples, *Int. J. Environ. Anal. Chem.*, **92** (3) : 366–372.

