



DAFTAR PUSTAKA

- Adu, R.E.Y., 2017, Pengembangan Analisis Boron Secara Spektrofotometri UV-Vis Melalui Modifikasi Sistem Distilasi Ester Borat ke Dalam Kurkumin, Tesis
- Araujo, P., 2009, Key Aspects of Analytical Method Validation and Linearity Evaluation, *J. Chromatogr. B*, 877, 2224–2234.
- Arikalang, T.G., Sudewi, S., and Rorong, J.A., 2018, Penentuan Kandungan Total Fenolik Pada Ekstrak Daun Gedi Hijau (*Abelmoschus Manihot L.*) yang Diukur dengan SpektrofotometerUv-Vis, *PHARMACHON*, 7, 14–21.
- Association of Official Analytical Chemists, 2012, *AOAC Guidelines for Single Laboratory Validation of Chemical Methods for Dietary Supplements and Botanicals*, 15th ed., Association of Official Analytical Chemists Inc., Virginia.
- Aznarez, J. and Mir, J.M., 1984, Spectrophotometric Determination of Boron with Curcumin after Extraction With 2-methylpentane-2,4-diol-chloroform, *Anal. Chem.*, 109, 183–184.
- Aznarez, J., J.M.A, Frerrer., Rabadan., and Marco, L., 1985, Extractive Spectrophotometric Determination of Boron With 2,2,4-trimethyl-1,3-pentanediol And Carminic Acid, *Anal. Chem.*, 32, 1156–1158.
- Bayliss, S.N, and Mcrae, G.E., 1954, Solvent Effects in Organic Spectra: Dipole Forces and The Franck-Condon Principle, *J. Phys. Chem.*, 58, 1002-1006
- Berger, K.C. and Truog, E., 1954, Boron Determination in Soils and Plants, *Anal. Chem.*, 11, 540–545.
- Capitian, Fermin., Navalón, A., Manzano, E., Capitan-Vallvey, L.F., and L, Jose., Vilchez., 1991, Determination of Boron with Chromotropic Acid by First-Derivative Synchronous Spectrofluorimetry, *Anal. Chem.*, 340, 6–10.
- Choi, M. and Jun, Y., 2008, Analysis of Boron Content in Frequently Consumed Foods in Korea, *Biol. Trace Elem. Res.*, 126, 13–26.
- Egneus, B. and Uppstrom, L., 1973, Extraction of Boric Acid with Aliphatic Other Chelating Agents, *Anal. Chim. Acta*, 66, 211–229.
- Erez, Y., Presiado, I., Gepshtein, R., and Huppert, D., 2011, Temperature Dependence of the Fluorescence Properties of Curcumin, *J. Phys. Chem. A.*, 115, 40 , 10962–10971.



Faassen, M.S, and Hitzmann, B., 2015, Fluorescence Spectroscopy and Cheometric Modeling for Bioprocess Monitoring, *Sensors.*, 15, 10271–10291.

Green, J.M., 1996, Analytical Method Validation, *Anal. Chem.*, 68, 305A–309A.

Harmita, 2004, Petunjuk Pelaksanaan Validasi Metode dan Cara Perhitungannya, *Majalah Ilmu Kefarmasian*, 1, 117–135.

Harris, D.C., 2007, *Quantitative Chemical Analysis 7thEd.*, W.H. Freeman and Company, New York.

Hoşgören, H., Tural, S., Kahraman, F., Toğrul, M., Karakaplan, M., Tural, S., dkk., 2016, Solvent Extraction of Boron With 2-dihydroxy-4-oxadodecane (DHD) in n-Amyl Alcohol, *Solvent Extr. Ion Exch.*, 15, 249–257, .

Kabu, M. and Akosman, M.S., 2013, Biological Effects of Boron, *Rev. Environ. Contam. Toxicol.*, 225, 57–76.

Kabu, M. and Uyarlar, C., 2015, The Effects of Borax on Milk Yield and Selected Metabolic Parameters in Austrian Simmental (Fleckvieh) Cows, *Veterinarni Medicina*, 60, 175–180.

Kochkodan, V., Darwish, N. Bin, and Hilal, N., 2015, The Chemistry of Boron in Water, *Anal. Bioanal. Chem.*, 21, 1–31.

Kunwar, A., Barik, A. Priyadarsini, K.I, and Pandey, R., 2007, Absorption and Fluorescence Studies of Curcumin Bound to Liposome and Living Cells, *BARC Newsletter.*, 285, 213-219.

Lailatusholihah, Isna, 2018, Validasi Metode Analisis Boron pada Sampel Sosis Secara Spektrofotometri Fluoresensi, Tesis

Liu, K., Sherwood, N, and Zhao, M., 2015, Advances in Fluorescence Spectroscopy for Petroleum Geosciences, in *AAPG International Conference.*, 4, 94-121.

Mair, J.W. and Day, H.G., 1972, Curcumin Method for Spectrophotometric Determination of Boron Extracted from Radiofrequency Ashed Hexanediol Animal Tissues Using 2-ethyl-1,3-hexanediol, *Anal. Chem.*, 44, 2015–2017.

Meacham, S., Karakas, S., Wallace, A., Altun, F., Bor, U., Enstitüsü, A., dkk., 2010, Boron in Human Health:Evidence for Dietary Recommendations and Public Policies, *Int. J. Miner. Process.*, 3, 36–53.

Mizura, S., Tee, E.S., and Ooi, H.E., 1991, Determination of Boric Acid in Foods: Comparative Study of Three Methods, *J. Sci. Food Agric.*, 55, 261–268.



Mohapatra, D., Chaudhury, G.R., and Park, K.H., 2008, Recovery of Boron from Wastewater Using 2,2,4-trimethyl-1,3-pentanediol in Carbon Tetrachloride, *J. Indian Chem. Tech.*, 15, 483–487.

Muthia, S. K. N., Sarjono, R. P., Aminin, A. L. N., 2017, Aktivitas Antioksidan dan Antibakteri Produk Fermentasi Susu Kedelai dan Whey Tahu menggunakan Bakteri Asam Laktat Komersial, *Jurnal Kimia Sains dan Aplikasi*, 20, 9–12.

Noviarty dan Nampira, Yusuf, 2000, Penggunaan Spektrofluorimeter untuk Analisis Unsur dalam Larutan, *Urania*, 23, 31–33.

Parks, J.L. and Edwards, M., 2005, Boron in the Environment, *Crit. Rev. Env. Sci. Technol.*, 35, 81–114.

Probst, T.U., Berryman, N.G., and Lemmen, P., 1997, Comparison of Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry With Quantitative Neutron Capture Radiography for the Determination of Boron in Biological Samples From Cancer Therapy, *J. Anal. At. Spectrom.*, 12, 1115–1122.

See, A.S., Salleh, A.B., Bakar, F.A., and Yusof, N.A., 2010, Risk and Health Effect of Boric Acid, *Am. J. Applied Sci.*, 7, 620–627.

Spicer G.S., and Strickland, J.D.H., 1952, Compounds of Curcumin and Boric Acid. Part II. The Structure Of Rubocurcumin, *J. Chem. Soc.*, 18, 4650–4653

Sugihartini, N., Fudholi, A., and Pramono, S., 2004, Validation Method Of Quantitative Analysis Of Epigallocatechin Gallat By High Performance, *Pharmaciana*, 4, 111–115.

Thangavel, S., Dhavile, S.M., Dash, K., and Chaurasia, S.C., 2004, Spectrophotometric Determination Of Boron In Complex Matrices By Isothermal Distillation Of Borate Ester Into Curcumin, *Anal. Chim. Acta*, 502, 265–270.

Tubagus, I. and Citraningtyas, G., 2013, Identifikasi dan Penetapan Kadar Boraks Dalam Bakso Jajanan di Kota Manado, *PHARMACHON*, 2, 142–148.

Uppstrom, L.R., 1968, A Modified Method For Determination of Boron with Curcumin and A Simplified Water Elimination Procedure, *Anal. Chim. Acta*, 43, 475–486.

Wimmer, M.A. and Goldbach, H.E., 1999, A Miniaturized Curcumin Method For The Determination of Boron in Solutions And Biological Samples, *J. Plant Nutr. Soil Sci.*, 162, 15–18.

World Health Organization, 1998, *Environmental Health Criteria*, Geneva.



Yamada, H. and Hattori, T., 1986, Determination of Total Boron in Soil by the Curcumin-Acetic Acid Method After Extraction with 2-ethyl-1,3-hexanediol, *J. Plant Nutr. Soil Sci.*, 32, 135–139.

Yustissiani, Erni., 2018, Ekstraksi Boron dengan 2-ethyl-1,3-hekasanadiol dan 2,2,4-trimetil-1,3-pantanadiol dalam Sampel Makanan dan Analisisnya Secara Spektrofotomerti UV-Vis, Tesis.

Zeng, L.-M., Wang, H.-Y., and Guo, Y.-L., 2010, Fast Quantitative Analysis of Boric Acid by Gas Chromatography-Mass Spectrometry Coupled with a Simple and Selective Derivatization Reaction Using Triethanolamine, *J. Am. Soc. Mass. Spectrom.*, 21, 482–485.