

DAFTAR PUSTAKA

- Abiya, A., Ilakiya, A., Hemalakshmi, S., & Ramesh, S. (2022). Obtaining and Investigate of Caffeine From Contrasting Tea Specimen Using Liquid-Liquid Extraction. *International Journal of Mechanical Engineering*, 7(4), 1491–1497.
- Abriyani, E., Sephia, R. A., Srifitriani, E., Lustianah, T., & Azzahra, S. K. (2023). Analisis Kadar Kafein KOPI, TEH, dan Coklat Menggunakan Metode Spektrofotometri UV-VIS. *Journal of Comprehensive Science*, 2(1), 7–15.
- Abriyani, E., Yanti, D., Yuliani, Y., Azzahra, S. S., & Firdaus, M. A. (2022). Analisis Kafein Dalam Kopi Menggunakan Metode Spektrofotometri Uv-Vis. *Journal of Comprehensive Science*, 1(5), 1398–1409.
- Adnan, N. K., & Rani, S. I. (2024). Quantitative assessment of tannins in commercially available tea beverages utilizing UV / Vis spectrometry. *International Journal of Synergy in Engineering and Technology*, 5(2), 89–98.
- Alpdogan, G., Karabina, K., & Sungur, S. (2002). Derivative Spectrophotometric Determination of Caffeine in Some Beverages. *Turkish Journal of Chemistry*, 26(1), 295–302.
- Anam, H. (2024). Analisis Kadar Kafein pada Teh (*Camellia sinensis* Linn.) Wonosari Lawang dengan Variasi Jenis Teh Secara Spektrofotometri UV-Vis, Skripsi, Universitas Islam Negeri Maulana Malik Ibrahim, Malang, Indonesia.
- AOAC. (2016). Guidelines for Standard Method Performance Requirements. *Official Methods of Analysis of AOAC INTERNATIONAL*, 9(1), 1–18.
- Atalay, D., & Erge, H. S. (2017). Determination of Some Physical and Chemical Properties of White, Green and Black Teas (*Camellia Sinensis*). *Gida / the Journal of Food*, 42(5), 494–504. <https://doi.org/10.15237/gida.gd17024>
- Atomssa, T., & Gholap, A. V. (2011). Characterization of caffeine and determination of caffeine in tea leaves using uv-visible spectrometer. *African Journal of Pure and Applied Chemistry*, 5(1), 1–8.
- Balentine, D. A., Wiseman, S. A., & Bouwens, L. C. M. (1997). The Chemistry of Flavonoid. *Critical Reviews in Food Science and Nutrition*, 37(8), 693–704.
- Belay, A. (2010). Measurement of integrated absorption cross-section, oscillator strength and number density of caffeine in coffee beans by integrated absorption coefficient technique. *Food Chemistry*, 121(2), 585–590.
- Boqué, R., Maroto, A. ., Riu, J., & Rius, F. X. (2016). Validation of Analytical Methods: Methodology. *Ich Q2B*, 53, 128–143.
- Cabrera, C., Artacho, R., Giménez, R., Cabrera, C., Artacho, R., & Gimenez, R. (2006). Beneficial Effects of Green Tea. *Journal of the American College of Nutrition*, 25(2), 79–99. <https://doi.org/10.1080/07315724.2006.10719518>
- Chaugule, A., Patil, H., Pagariya, S., & Ingle, P. (2019). Extraction of Caffeine. *International Journal of Advanced Research in Chemical Science*, 6(9), 11–19.
- Desai, S. (2020). Estimation of Caffeine Content From Soft and Energydrinks Obtained From Regional Market By Uv Spectroscopy and Tlc. *International Journal of*

Scientific Development and Research, 5(4), 96–104.

- Dulanlebit, Y. H., Hattu, N., Sangadji, R. P., Mahulette, R., Kelmanutu, N., & Asari, S. (2020). Performance of Caffeine Content Analysis in Robusta sp and Theobroma cacao L using Iodometry, UV-Vis Spectrophotometry and High Performance Liquid Chromatography. *The Journal of Pure and Applied Chemistry Research*, 9(3), 212–221. <https://doi.org/10.21776/ub.jpacr.2020.009.03.535>
- Eserian, J. K., & Lombardo, M. (2015). Method validation in pharmaceutical analysis: from theory to practical optimization. *INNOVATIONS in Pharmacy*, 6(1), 1–3. <https://doi.org/10.24926/iip.v6i1.376>
- Eticha, S., & Bedassa, T. (2020). Determination of Caffeine in Coffee Samples by High Performance Liquid Chromatography and Ultra Violet - Visible Spectrophotometry Methods from Wollega, Ethiopia. *International Journal of Biochemistry, Biophysics & Molecular Biology*, 5(1), 8–17. <https://doi.org/10.11648/j.ijbbmb.20200501.12>
- Garg, A. K. (2021). Quantitative Analysis of Caffeine in the Green Tea, Black Tea and Soft Drink Using UV-Visible Spectrophotometer. *Indian Journal of Science and Technology*, 14(37), 2860–2864. <https://doi.org/10.17485/ijst/v14i37.2241>
- Harmita, H. (2004). Petunjuk Pelaksanaan Validasi Metode dan Cara Perhitungannya. *Majalah Ilmu Kefarmasian*, 1(3), 117–135. <https://doi.org/10.7454/psr.v1i3.3375>
- Hilal, Y., & Engelhardt, U. (2007). Characterisation of white tea - Comparison to green and black tea. *Journal Fur Verbraucherschutz Und Lebensmittelsicherheit*, 2(4), 414–421. <https://doi.org/10.1007/s00003-007-0250-3>
- Hong, E., Lee, S. Y., Jeong, J. Y., Park, J. M., Kim, B. H., Kwon, K., & Chun, H. S. (2017). Modern analytical methods for the detection of food fraud and adulteration by food category. In *Journal of the Science of Food and Agriculture* (Vol. 97, Issue 12, pp. 3877–3896). John Wiley and Sons Ltd. <https://doi.org/10.1002/jsfa.8364>
- ICH. (2014). Technical Requirements for Registration of Pharmaceuticals for Human Use: The ICH Process. *The Textbook of Pharmaceutical Medicine*, 14(1), 447–460.
- Ihsan, B. R. P., Shalas, A. F., Elisabeth, Y., Claudia, L. M., & Putri, A. R. (2023). Determination of caffeine in green tea with different roasting method using UV-Vis spectrophotometry. *Food Research*, 7(6), 29–34.
- Indrayanto, G. (2022). Application of Accuracy and Precision Evaluations Based on the Current United States and Indonesian Pharmacopoeias: A Critical Review. *Makara Journal of Science*, 26(4), 227–237. <https://doi.org/10.7454/mss.v26i4.1343>
- Karageorgou, E., & Samanidou, V. (2014). Youden test application in robustness assays during method validation. *Journal of Chromatography A*, 1353, 131–139. <https://doi.org/10.1016/j.chroma.2014.01.050>
- Kartika, R. (2021). Verifikasi Dan Validasi Metode Uji Kualitas Udara. In *KBM Indonesia*, Yogyakarta.
- Kisiga, W. (2023). Techno-Economic Analysis and Life Cycle Assessment for Production of Biofuels Spent Coffe Grounds.
- Krummenauer, A., Lapazin, L. H., Cenci, M. P., & Veit, H. M. (2023). Portable EDXRF spectrometer: Determination of linearity, LOD, LOQ, and working range for the

- analysis of base and precious metals in liquid matrices. *Journal of Physics: Conference Series*, 2606(1), 1–9.
- Linnarto, F. P., Gunawan, K. P., Setiadi, M., Ashyari, R. A., & Lukman, S. (2019). Teh Putih sebagai Alternatif Minuman Fungsional untuk Gaya Hidup Sehat: Peluang Komersialisasi di Indonesia. *Indonesian Business Review*, 2(1), 139–159. <https://doi.org/10.21632/ibr.2.1.139-159>
- Maghfiroh, D., Monica, E., & Afthoni, M. H. (2022). Pengembangan Dan Validasi Metode Spektrofotometri Uv Vis Metode Derivatif Untuk Analisis Kafein Dalam Suplemen. *SAINSBERTEK Jurnal Ilmiah Sains & Teknologi*, 2(2),1-11.
- Mudigiri, R., & Jorjige, A. (2023). Extraction, Identification and Estimation of Caffeine in Green and Black Tea Samples By a Simple Uv-Visible Spectroscopic Method. *Indian Drugs*, 60(8), 63–66. <https://doi.org/10.53879/id.60.08.13070>
- Müller, E., Berger, R., Blass, E., Sluyts, D., & Pfennig, A. (2012). Liquid–Liquid Extraction. *Ullmann's Encyclopedia of Industrial Chemistry*, 21(1), 250–307.
- Noerpitasi, E., & Nugroho, A. (2012). Validasi Metode Analisis Unsur Tanah Jarang (Ce, Eu, Tb) dengan Alat ICP-AES Plasma 40. *Seminar Nasional VIII SDM Teknologi Nuklir*, Yogyakarta, 31 Oktober, 347–352.
- Panggabean, A. S., Widyastuti, T., & Hindryawati, N. (2019). Validasi Metode Penentuan Benzena, Toluena dan Xilena pada Sampel Udara dan Tanah Menggunakan Kromatografi Gas. *ALCHEMY Jurnal Penelitian Kimia*, 15(1), 177–189.
- Panjaitan, R. S., Ashari, R. S., Rafael, Cristina, Y., Nurulah, M., Asifa, N., Alifia, S., Anwar, S., Agustin, A., Sari, D. S., Putri, F., Rahmi, S. W., Manongga, A., & Sari, M. T. (2022). Caffeine Levels in Green Tea Bags (% Kadar Kafein pada Teh Hijau Celup Kemasan). In *Indonesian Journal of Pharmaceutical Research: Vol. 2(1)*, 26-31.
- Perbina, D. I., IIsanna, C., Simorangkir, D. M., Nerdy, & Simarmata, H. (2020). Penetapan Kadar Kafein Pada Bubuk Teh Hitam Yang Beredar Di Pasar Deli Tua Menggunakan Spektrofotometri UV. *Jurnal Penelitian Farmasi & Herbal*, 3(1), 21–28.
- Pradeep, S., Rameshaiah, G. N., & Ashoka, H. (2015). Caffeine Extraction and Characterization. *Int J Cur Res Rev*, 7(9), 16–19.
- Pradhan, D., Biswasroy, P., Kapil, Kajol, Jatin, & Pradhan, R. (2017). Qualitative and quantitative analysis of caffeine in some commercial brands of tea consumed in India. *Journal of Ayurvedic and Herbal Medicine*, 3(4), 200–204.
- Riyanto, P. . (2014). *Validasi & Verifikasi Metode Uji*. Deepublish, Yogyakarta.
- Rohmah, S. A. A., Muadifah, A., & Martha, R. D. (2021). Validasi Metode Penetapan Kadar Pengawet Natrium Benzoat pada Sari Kedelai di Beberapa Kecamatan di Kabupaten Tulungagung Menggunakan Spektrofotometer Uv-Vis. *Jurnal Sains Dan Kesehatan*, 3(2), 120–127.
- Rupa, N. F., Gama, S. I., & Islamuddin, A. (2020). *Proceeding of Mulawarman Pharmaceuticals Conferences. Proceeding of Mulawarman Pharmaceuticals Conferences*, 18(1), 135–138.

- Rusandi, M. A. Y. (2023). Penentuan kadar kafein dalam teh hijau bubuk (matcha) menggunakan spektrofotometer uv- visibel. Skripsi, Universitas Islam Indonesia, Yogyakarta.
- Rustamsyah, A., Perdana, F., Zakiah, A., & Khairunnisa, A. (2024). Analisis Kadar Total Fenol dan Flavonoid pada Produk Teh Oolong yang Beredar di Pasaran. *JIPANG (Jurnal Teknologi Pangan Dan Ilmu Pertanian)*, 6(1), 1–6.
- Sethuraman, S., Radhakrishnan, K., & Solomon, T. A. (2013). Analytical Method Development and Validation of Caffeine in Tablet Dosage Form By Using UV-Spectroscopy. *International Journal of Novel Trends In Pharmaceutical Sciences*, 3(4), 82–86. www.ijntps.org
- Shao, Jianbin & Zhang, Y. (2019). Determination of caffeine content in tea beverages. *IOP Conf. Series: Earth and Environmental Science* 330. <https://doi.org/10.1088/1755-1315/330/4/042056>
- Sharif, R., Ahmad, S. W., Anjum, H., Ramzan, N., & Malik, S. R. (2014). Effect of infusion time and temperature on decaffeination of tea using liquid-liquid extraction technique. *Journal of Food Process Engineering*, 37(1), 46–52. <https://doi.org/10.1111/jfpe.12058>
- Suhartati, T. (2015). Dasar - Dasar Spektrofotometri UV-VIS dan Spektrometro Massa Untuk Penentuan Struktur Senyawa Organik. AURA, Lampung.
- Supaya. (2019). Refdes Kombinasi Alat Refluks dan Distilasi , Upaya Efisiensi Proses Refluks dan Distilasi untuk Praktikum Kimia Organik. *Indonesian Journal of Laboratory*, 2(1), 41–46.
- Susanti, H., Araaf, N. P. M., & Kusbandari, A. (2020). Perbandingan Metode Spektrofotometri UV Dan HPLC pada Penetapan Kadar Kafein dalam Kopi. *Majalah Farmasetika.*, 4(1), 28–33. <https://doi.org/10.24198/mfarmasetika.v4i0.25887>
- Wakeman, R. J. (2000). Extraction, Liquid-Solid. *Kirk-Othmer Encyclopedia of Chemical Technology*, 1–14. <https://doi.org/10.1002/0471238961.1209172123011105.a01>
- Wardani, R. K., & Fernanda, M. A. H. F. (2016). Analisis Kadar Kafein Dari Serbuk Teh Hitam, Teh Hijau dan Teh Putih (*Camellia sinensis L.*). *Journal of Pharmacy and Science*, 1(1), 15–17. <https://doi.org/10.53342/pharmasci.v1i1.48>
- Wibowo, N. K., Rudyanto, M., & Purwanto, D. A. (2022). Aktivitas Antioksidan Teh Hijau dan Teh Hitam. *Camellia : Clinical, Pharmaceutical, Analytical and Pharmacy Community Journal*, 1(2), 48–55. <https://doi.org/10.30651/cam.v1i2.16722>
- Winingsih, W.-, Ulfa, M.-, & Suprijana, O.-. (2018). Penggunaan FTIR-ATR ZnSe (Fourier Transfor Infra Red) Untuk Penetapan Kadar Kuersetin dalam Teh Hitam (*Camellia sinensis L.*). *Jurnal Sains Dan Teknologi Farmasi Indonesia*, 5(1), 47–53. <https://doi.org/10.58327/jstfi.v5i1.53>