

## DAFTAR PUSTAKA

- Abdalrahim F. A. Aisha,. (2012). Quantification of  $\alpha$ -,  $\beta$ - and  $\gamma$ -mangostin in Garcinia mangostana fruit rind extracts by a reverse phase high performance liquid chromatography. *Journal of Medicinal Plants Research*, 6(29), 4526–4534. <https://doi.org/10.5897/jmpr11.1253>
- Andayani, R., & Verawati, V. (2015). Pengaruh Metode Ekstraksi terhadap Kadar Xanton Total dalam Ekstrak Kulit Buah Manggis Matang (Garcinia mangostana L.) dengan Metode Spektrofotometri Ultraviolet (Effect of Extract... Determination of Total Phenolic Content and Antioxidant Activities from. *Perkembangan Terkini Sains Farmasi & Klinik*, 1(2015), 353–361.
- Apsari, K., & Chaerunisa, A. Y. (2020). Review Jurnal: Upaya Peningkatan Kelarutan Obat. *Farmaka*, 18(2), 56–68.
- Benesi, H. A., & Hildebrand, J. H. (1949). Spectrophotometry of Iodine with Aromatic Hydrocarbons. *J. Am. Chem. Soc.*, 71(8), 2703–2707.
- Bestari, A. N. (2014). Penggunaan Siklodekstrin dalam Bidang Farmasi. *Majalah Farmaseutik*, 10(1), 197–201.
- Challa, R., Ahuja, A., Ali, J., & Khar, R. K. (2005). Cyclodextrins in drug delivery: An updated review. *AAPS PharmSciTech*, 6(2), 329–357. <https://doi.org/10.1208/pt060243>
- Chang, H. F., & Yang, L. L. (2012). Gamma-mangostin, a micronutrient of mangosteen fruit, induces apoptosis in human colon cancer cells. *Molecules*, 17(7), 8010–8021. <https://doi.org/10.3390/molecules17078010>
- Del Valle, E. M. M. (2004). Cyclodextrins and their uses: A review. *Process Biochemistry*, 39(9), 1033–1046. [https://doi.org/10.1016/S0032-9592\(03\)00258-9](https://doi.org/10.1016/S0032-9592(03)00258-9)
- Dewi, I. D. A. D. Y., Astuti, K. W., & Warditiani, N. K. (2013). Identifikasi kandungan kimia ekstrak kulit buah manggis (Garcinia mangostana L.). *Jurnal Farmasi Fakultas Matematika Dan Ilmu Pengetahuan Alam Universitas Udayana*, 2(4), 13–18.
- Doan, V. T. H. D., Lee, J. H., Takahashi, R., Nguyen, P. T. M., Nguyen, V. A. T.,

- Pham, H. T. T., Fujii, S., & Sakurai, K. (2019). Cyclodextrin-based nanoparticles encapsulating  $\alpha$ -mangostin and their drug release behavior: potential carriers of  $\alpha$ -mangostin for cancer therapy. *Polymer Journal*. <https://doi.org/https://doi.org/10.1038/s41428-019-0296-y>
- Fajeriyati, N., Muchtaridi, M., & Sopyan, I. (2021). Methods for improving alpha-mangostin solubility: A review. *International Journal of Applied Pharmaceutics*, 13(4), 47–54. <https://doi.org/10.22159/ijap.2021v13i4.39065>
- Figueiras, A., Ribeiro, L., Torres-Labandeira, J. J., & Veiga, F. J. B. (2007). Evaluation of host-guest complex formation between a benzimidazolic derivative and cyclodextrins by UV-VIS spectrophotometry and differential scanning calorimetry. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 57(1–4), 531–535. <https://doi.org/10.1007/s10847-006-9245-4>
- García, A., Leonardi, D., Salazar, M. O., & Lamas, M. C. (2014). Modified  $\beta$ -cyclodextrin inclusion complex to improve the physicochemical properties of albendazole. Complete in vitro evaluation and characterization. *PLoS ONE*, 9(2), 3–10. <https://doi.org/10.1371/journal.pone.0088234>
- Hotarat, W., Nutho, B., Wolschann, P., Wolschann, P., Rungrotmongkol, T., Rungrotmongkol, T., Rungrotmongkol, T., & Hannongbua, S. (2020). Delivery of alpha-mangostin using cyclodextrins through a biological membrane: Molecular dynamics simulation. *Molecules*, 25(11). <https://doi.org/10.3390/molecules25112532>
- Hyun-Ah, J., Bao-Ning, S., William J, K., Rajendra G, M., & A Douglas, K. (2006). Antioxidant Xanthones from the Pericarp of Garcinia mangostana (Mangosteen). *Journal of Agricultural and Food Chemistry*, 54, 2077–2082.
- Idawati, S., Hakim, A., & Andayani, Y. (2018). Isolasi  $\alpha$  -Mangostin dari Kulit Buah Manggis (Garcinia mangostana L.) dan Uji Aktivitas Antibakteri Terhadap Bacillus cereus. *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia*, 4(2), 118–122.
- Le, T. T., Trang, N. T., Pham, V. T. T., Quang, D. N., & Phuong Hoa, L. T. (2023). Bioactivities of  $\beta$ -mangostin and its new glycoside derivatives synthesized by enzymatic reactions. *Royal Society Open Science*, 10(8). <https://doi.org/10.1098/rsos.230676>
- Liu, J. Y., Zhang, X., & Tian, B. R. (2020). Selective modifications at the different positions of cyclodextrins: A review of strategies. *Turkish Journal of*

*Chemistry*, 44(2), 261–278. <https://doi.org/10.3906/KIM-1910-43>

Loftsson, T., Hreinsdóttir, D., & Másson, M. (2005). Evaluation of cyclodextrin solubilization of drugs. *International Journal of Pharmaceutics*, 302(1–2), 18–28. <https://doi.org/10.1016/j.ijpharm.2005.05.042>

Lukum, A. (2022). *Dasar-Dasar Kimia Analitik*.

Maulina, M. (2015). PENGARUH PEMBERIAN XANTHONE TERHADAP GAMBARAN NEKROSIS SEL HEPAR TIKUS PUTIH (RATTUS NORVEGICUS) JANTAN YANG DIINDUKSI KARBON TETRAKLORIDA ( $\text{CCl}_4$ ). In *Sel* (Vol. 2, Nomor 1). <https://doi.org/10.22435/sel.v2i1.4676.10-21>

Muderawan, I. W., Mudianta, I. W., & Giri, M. K. W. (2022). Phase Transfer Catalyzed Preparation of 4-Methylbenzenesulfonyl Imidazole for Regioselective Synthesis of Mono-6-(4-methylbenzenesulfonyl)- $\beta$ -cyclodextrin. *Indonesian Journal of Chemistry*, 22(5), 1117–1186. <https://doi.org/10.22146/ijc.70252>

Muderawan, I. W., Ong, T. T., Tang, W. H., Young, D. J., Ching, C. B., & Ng, S. C. (2005). Synthesis of ammonium substituted  $\beta$ -cyclodextrins for enantioseparation of anionic analytes. *Tetrahedron Letters*, 46(10), 1747–1749. <https://doi.org/10.1016/j.tetlet.2005.01.059>

Ogoshi, T., & Harada, A. (2008). Chemical sensors based on cyclodextrin derivatives. *Sensors*, 8(8), 4961–4982. <https://doi.org/10.3390/s8084961>

Pedraza-Chaverri, J., Cárdenas-Rodríguez, N., Orozco-Ibarra, M., & Pérez-Rojas, J. M. (2008). Medicinal properties of mangosteen (*Garcinia mangostana*). *Food and Chemical Toxicology*, 46(10), 3227–3239. <https://doi.org/10.1016/j.fct.2008.07.024>

Putri, I. P. (2015). EFFECTIVITY OF XANTHONE OF MANGOSTEEN (*Garcinia mangostana L.*) RIND AS ANTICANCER. *J Majority* | , 4, 33.

Rusdin, A. (2019).  $\alpha$ -Mangostin dari Buah Manggis, Kandidat Obat Antikanker Baru. *Farmasetika.com (Online)*, 3(2), 28–31. <https://doi.org/10.24198/farmasetika.v4i2.22533>

Savjani, K. T., Gajjar, A. K., & Savjani, J. K. (2012). Drug Solubility: Importance

and Enhancement Techniques. *ISRN Pharmaceutics*, 2012(100 mL), 1–10. <https://doi.org/10.5402/2012/195727>

Soares Sobrinho, J. L., De La Roca Soares, M. F., Juan Labandeira, J. T., Santos Alves, L. D., & Rolim Neto, P. J. (2011). Improving the solubility of the antichagasic drug benznidazole through formation of inclusion complexes with cyclodextrins. *Quimica Nova*, 34(9), 1534–1538. <https://doi.org/10.1590/S0100-40422011000900010>

Sucilaksmi, P. P. D. S. (2022). *Pembentukan dan Karakteristik Kompleks Inklusi Minyak Daun Cengkeh dan Eugenol dengan Garam Mono-6-Deoksi-6-Amonium- $\beta$ -Siklodekstrin Klorida*.

Suharyani, I., Muchtaridi, M., Mohammed, A. F. A., Elamin, K. M., Wathoni, N., & Abdassah, M. (2021).  $\alpha$ -Mangostin/ $\gamma$ -Cyclodextrin Inclusion Complex: Formation and Thermodynamic Study. In *Polymers* (Vol. 13, Nomor 17). <https://doi.org/10.3390/polym13172890>

Triwahyuningtyas, D., Megantara, S., Hong, T., Yusuf, M., & Muchtaridi, M. (2021). Encapsulation mechanism of  $\alpha$ -mangostin by  $\beta$ -cyclodextrin: Methods of molecular docking and molecular dynamics. *Journal of Advanced Pharmaceutical Technology and Research*, 12(3), 250–253. [https://doi.org/10.4103/japtr.JAPTR\\_298\\_20](https://doi.org/10.4103/japtr.JAPTR_298_20)

Uekama, K. (2004). Design and evaluation of cyclodextrin-based drug formulation. *Chemical and Pharmaceutical Bulletin*, 52(8), 900–915. <https://doi.org/10.1248/cpb.52.900>

Yamada, T., Imai, T., Ouchi, K., Otagiri, M., Hirayama, F., & Uekama, K. (2002). Inclusion complex of 3,9-bis(N,N-dimethylcarbamoyloxy)-5H-benzofuro[3,2-c]quinoline-6-one (KCA-098) with heptakis(2,6-di-O-methyl)-beta-cyclodextrin: interaction and dissolution properties. *Chemical Pharmaceutical Bulletin*, 43, 2091. <http://www.mendeley.com/research/geology-volcanic-history-eruptive-style-yakedake-volcano-group-central-japan/>

Zhou, J., Jia, J., He, J., Li, J., & Cai, J. (2022). Cyclodextrin Inclusion Complexes and Their Application in Food Safety Analysis: Recent Developments and Future Prospects. *Foods*, 11(23). <https://doi.org/10.3390/foods11233871>