

DAFTAR PUSTAKA

- Alkufeidy, R.M., Altuwijri, L.A., Aldosari, N.S., Alsakabi, N., and Dawoud, T.M. 2024. Antimicrobial and Synergistic Properties of Green Tea Catechins Against Microbial Pathogens. *Journal of King Saud University*. 36: 1-8. doi:10.1016/j.jksus.2024.103277
- Carr, A.C., and Maggini, S. 2017. Vitamin C and immune function. *Nutrients*. 9(11): 1211. doi: 10.3390/nu9111211
- Chen, L., Wang, W., Zhang, J., Cui, H., Ni, D., and Jiang, H. 2020. Dual Effects of Ascorbic Acid on the Stability of EGCG by the Oxidation Product Dehydroascorbic Acid Promoting the Oxidation and Inhibiting the Hydrolysis Pathway. *Journal Food Chemistry*. 1-20. <https://doi.org/10.1016/j.foodchem.2020.127639>
- CLSI. 2025. *CLSI M100-ED35:2025 Performance Standards for Antimicrobial Susceptibility Testing*, 35th Edition.
- Coelho, T., Machado, D., Couto, I., Maschmann, R., Ramos, D., Groll, A.V., Rossetti, M.L., Silva, P.A., and Viveiros, M. 2015. Enhancement of Antibiotic Activity by Efflux Inhibitors Against Multidrug Resistant *Mycobacterium tuberculosis* Clinical Isolates from Brazil. *Frontiers in Microbiology*. 6(330): 1-12. doi:10.3389/fmicb.2015.00330
- Emara, M.S., Ammar, A.M., Abdelwahab, A.M.O., Elgdawy, A.A., Abdelkhalek, A., Pet, E., Dumitrescu, G., Ahmadi, M., and El-Aziz, N.K.A. 2025. Green Tea Extract (*Theaceae; Camellia sinensis* L.): A Promising Antimicrobial, Anti-Quorum Sensing and Antibiofilms Candidate Against Multidrug-Resistant *Campylobacter* Species. *Antibiotics*. 14(61): 1-25. doi: 10.3390/antibiotics14010061
- Grosso, R., Nguyen, V., Ahmed, S.K., and Wong-Beringer, A. 2024. Novel Epigallocatechin Gallate (EGCG) Analogs with Improved Biochemical Properties for Targeting Extracellular and Intracellular *Staphylococcus aureus*. *Applied Microbiology*. 4: 1568-1581. <https://doi.org/10.3390/applmicrobiol4040107>
- Krupkova, O., Ferguson, S.J., and Wuertz-Kozak, K. 2016. Stability of (-)-Epigallocatechin Gallate and its Activity in Liquid Formulation and Delivery Systems. *Journal of Nutritional Biochemistry*. 37: 1-12. doi:10.1016/j.jnutbio.2016.01.002
- Mokra, D., Joskova, M., and Mokry, J. 2022. Therapeutic Effects of Green Tea Polyphenol (-)-Epigallocatechin-3-Gallate (EGCG) in Relation to Molecular Pathways Controlling Inflammation, Oxidative Stress, and Apoptosis. *International Journal of Molecular Sciences*. 23(340): 1-26. doi: 10.3390/ijms24010340

- Mousavi, S., Bereswill, S., and Heimesaat, M.M. 2019. Immunomodulatory and Antimicrobial Effects of Vitamin C. *European Journal of Microbiology and Immunology*. 9(3): 73-79. doi: 10.1556/1886.2019.00016
- Mozumder, N.H.M.R., Lee, J.E., and Hong, Y.S. 2025. A Comprehensive Understanding of *Camellia sinensis* Tea Metabolome: From Tea Plants to Processed Teas. *Annual Review of Food Science and Technology*. 16. 379-402. doi:10.1146/annurev-food-111523-121252
- Panda, L., and Duarte-Sierra, A. 2022. Recent Advancements in Enhancing Antimicrobial Activity of Plant-Derived Polyphenols by Biochemical Means. *Horticulturae*. 8: 1-19. doi:10.3390/horticulturae8050401
- Purwanto, D.A., Agustin, B.D., and Ekowati, J. 2023. A Study of the Stability of Antioxidant Activity of Green Tea Extract Powder with Vitamin C. *Pharmacy Education*. 23(4): 159-163. doi: 10.46542/pe.2023.234.159163
- Radeva-Illieva, M., Stoeva, S., Hvarchanova, N., and Georgiev, K.D. 2025. Green Tea: Current Knowledge and Issues. *Foods*. 14(745): 1-31. doi: 10.3390/foods14050745
- Rahim, S., Rahman, R., Jhuma, T.A., Ayum, M.I., Khan, S.N., Hossain, A., and Karim, M.M. 2025. Disrupting Antimicrobial Resistance: Unveiling The Potential of Vitamin C in Combating Biofilm Formation in Drug-Resistant Bacteria. *BMC Microbiology*. 25(212): 1-12. doi:10.1186/s12866-025-03800-3
- Rahman, A.P., Purwanto, D.A., and Isaeni. 2019. The Effect of Vitamin C Addition on Epigallocatechin Gallate (EGCG) Stability in Green Tea Solution. *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*. 6(2): 62-68. doi:10.20473/jfiki.v6i22019.62-68
- Rayes, N.S.P., Permatasari, L., Mukhlshah, N.R.I., Octora, M., Arnawati, I.A., and Jannah, F. 2025. The Effect of Vitamin C Addition on The Antibacterial Activity of *Pseudomonas aeruginosa* in the Ethyl Acetate Fraction of Green Tea Leaves. *Jurnal Biologi Tropis*. 25(4): 5342-5352. doi: 10.29303/jbt.v25i4.9657
- Renzetti, A., Betts, J.W., Fukumoto, K., and Rutherford, R.N. 2020. Antibacterial Green Tea Catechins from a Molecular Perspective: Mechanisms of Action and Structure-Activity Relationship. *The Royal Society of Chemistry*. 1-27. doi: 10.1039/d0fo02054k
- Sartini, S., Djide, M.N., and Nainu, F. 2019. Correlation Phenolic Concentration to Antioxidant and Antibacterial Activities of Several Ethanolic Extracts from Indonesia. *Journal of Physics: Conference Series*. 1341: 1-10. doi:10.1088/1742-6596/1341/7/072009
- Shedafa, R.J., Sempombe, J., Nondo, R.S., Kaale, E., Temu, M., and Imming, P. 2023. Determination of Epigallocatechin Gallate (EGCG) and Antibacterial Activities of Commercially Available Tanzanian Green Tea (*Camellia*

- sinensis*). *Tanzania Journal of Science*. 49(2): 413-421. doi:10.4314/tjs.v49i2.12
- Taylor, P.W. 2020. Interaction of Tea-Derived Catechin Gallates with Bacterial Pathogens. *Molecules*. 25: 1-16. doi: 10.3390/molecules25081986
- Tourabi, M., Faiz, K., Ezzougari, R., Louaste, B., Merzouki, M., Dauelbait, M., Bourhia, M., Almaary, K.S., Siddique, F., Lyoussi, B., and Derwich, E. 2025. Optimalization of Extraction Process and Solvent Polarities to Enhance the Recovery of Phytochemical Compounds, Nutritional Content, and Biofunctional Properties of *Mentha longifolia* L. Extract. *Bioresources and Bioprocessing*. 12(24): 1-18. doi:10.1186/s40643-025-00859-8
- Veiga, A., Toledo, M.G.T., Rossa, L.S., Mengarda, M., Stofella, N.C.F., Oliveira, L.J., Goncalves, A.G., and Murakami, F.S. 2019. Colorimetric Microdilution Assay: Validation of a Standard Method for Determination of MIC, IC50 and IC90 of Antimicrobial Compounds. *Journal of Microbiological Methods*. 52: 50-61. <https://doi.org/10.1016/j.mimet.2019.05.003>
- Wang, C., Han, J., Pu, Y., and Wang, X. 2022. Tea (*Camellia sinensis*): A Review of Nutritional Composition, Potential Applications, and Omics Research. *Applied Sciences*. 12: 1-20. doi:10.3390/app12125874
- Widyaningrum, N., Sumarwati, T., and Sukryana, W.S. 2019. Effects of Vitamin C and E on the Stability of Epigallocatechin gallate (EGCG) in the Ethyl Acetate Fraction of Green Tea (*Camellia sinensis* L.) Leaf. *Jurnal Ilmiah Farmasi*. 15(2): 80-85.
- WHO. 2022. *Global Antimicrobial Resistance and Use Surveillance System (GLASS) Report*. Geneva: World Health Organization.
- Wong, M., Sirisena, S., and Ng, K. 2022. Phytochemical Profile of Differently Processed Tea: A Review. *Concise Review & Hypotheses in Food Science*. 87: 1925-1942. doi:10.1111/1750-3841.16137
- Yuan, H., Xu, J., Wang, Y., Li, Y., Han, Y., Long, J., Liu, F., Zhu, J., and Yang, H. 2025. The Global Antimicrobial Resistance Trends of *Staphylococcus aureus* and Influencing Factors. *Microbiology Research*. 16(118): 1-19. doi:10.3390/microbiolres16060118
- Zhao, T., Li, C., Wang, S., and Song, X. 2022. Green Tea (*Camellia sinensis*): A Review Its Phytochemistry, Pharmacology, and Toxicology. *Molecules*. 27(3909): 1-23. doi: 10.3390/molecules27123909