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**Collagenase and Tyrosinase Inhibitory Activities and Stability of Facial Cream Formulation Containing Cashew Leaf Extract**

1

... Plant extracts and essential oils are among the many natural products that are used extensively across the world because of their antioxidant activity, which protects people against a variety of ailments brought on by oxidative stress (Aggrey et al., 2019; Sonam and Guleria, 2017; **Srisuksomwong et al., 2023**; Zulkefli et al., 2023). Synergistic interactions between various antioxidant chemicals in mixtures of synthetic and natural antioxidants, natural products, or mixtures of various herbal extracts or plant essential oils can increase antioxidant capacity (Basavegowda and Baek, 2021; Ben Mrid et al., 2022; Sharma et al., 2020). ...

**Combination Effect of Extracts and Pure Compounds of Endophytic Fungi Isolated from Sungkai (*Peronema canescens*) Leaves on...**

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... Gallic acid was found to be the main polyphenol ingredient of *F. pinicola* extract. It has already been confirmed that this acid displays tyrosinase inhibitory activity [58]. Gallic acid can act as a substrate of tyrosinase and also can reduce dopaquinone back to levodopa (L-DOPA) through redox cycling similar to ascorbic acid [45]

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# 1. <https://sciencetechindonesia.com/index.php/jsti/article/view/926>

Phytoconstituent, and Pharmacological Activities. *International Journal of Applied Pharmaceutics*, 14(3), 13–23

Ranjutha, V., Y. Chen, L. A. Al Keridis, M. Patel, N. Alshamari, M. Adnan, S. Sahreen, S. C. Gopinath, and S. Sasidharan (2023). Synergistic Antimicrobial Activity of Ceftriaxone and Polyalthia longifolia Methanol (MEPL) Leaf Extract against Methicillin-Resistant Staphylococcus aureus and Modulation of mecA Gene Presence. *Antibiotics*, 12(3); 477

Santra, H. K. and D. Banerjee (2022). Bioactivity Study and Metabolic Profiling of Colletotrichum Alatae LCS1, an Endophyte of Club Moss Lycopodium Clavatum L. *PloS one*, 17(4); e0267302

Sari, M. T., H. Widjanti, F. Ferlinahayati, H. Hermansyah, R. Oktiansyah, and E. Elfita (2023). Secondary Metabolite of Endophytic fungi Daldinia eschscholtzii from the Leaves Syzygium polyanthum. *Science and Technology Indonesia*, 8(4); 560–569

Septiana, E., Y. Yadi, and P. Simanjuntak (2020). Antioxidant Activity of Endophytic Fungi Isolated from Turmeric Flowers. *Biosaintifika: Journal of Biology & Biology Education*, 12(2); 268–273

Sharma, K., S. Guleria, V. K. Razdan, and V. Babu (2020). Synergistic Antioxidant and Antimicrobial Activities of Essential Oils of Some Selected Medicinal Plants in Combination and with Synthetic Compounds. *Industrial Crops and Products*, 154; 112569

Sitarek, P., A. Merez-Sadowska, T. Kowalczyk, J. Wiercinska, R. Zajdel, and T. Sliwinski (2020). Potential Synergistic Action of Bioactive Compounds from Plant Extracts against Skin Infecting Microorganisms. *International Journal of Molecular Sciences*, 21(14); 5105

Sonam, K. S. and S. Guleria (2017). Synergistic Antioxidant Activity of Natural Products. *Annals of Pharmacology and Pharmaceutics*, 2(8); 1086

**Srisuksomwong, P., L. Kaenhin, and L. Mungmai (2023). Colлагенase and Tyrosinase Inhibitory Activities and Stability of Facial Cream Formulation Containing Cashew Leaf Extract. *Cosmetics*, 10(1); 17**

Tiwari, P. and H. Bae (2022). Endophytic Fungi: Key Insights, Emerging Prospects, and Challenges in Natural Product Drug Discovery. *Microorganisms*, 10(2); 360

Vaou, N., E. Stavropoulou, C. Voidarou, Z. Tsakris, G. Rozos, C. Tsigalou, and E. Bezirtzoglou (2022). Interactions between Medical Plant-derived Bioactive Compounds: Focus on Antimicrobial Combination Effects. *Antibiotics*, 11(8); 1014

Walsh, T. J., R. T. Hayden, and D. H. Larone (2018). *Larone's Medically Important Fungi: A Guide to Identification*. John Wiley & Sons

Watanabe, T. (1993). *Pictorial Atlas of Soil and Seed Fungi*. CRC Press

Widjanti, H., E. Nurnawati, E. D. Zahwa, et al. (2022). Optimization of Antibacterial Production of Endophytic Fungi with Various Sources of C, N, and pH using The Response Surface Methodology. *Science and Technology Indonesia*, 7(2); 149–157

Zhou, X., S. W. Seto, D. Chang, H. Kiat, V. Razmovski Naumovski, K. Chan, and A. Bensoussan (2016). Synergistic Effects of Chinese Herbal Medicine: A Comprehensive Review of Methodology and Current Research. *Frontiers in Pharmacology*, 7; 201

Zihad, S., M. T. Hasan, M. S. Sultana, S. Nath, L. Nahar, M. A. Rashid, S. J. Uddin, S. D. Sarker, and J. A. Shilpi (2022). Isolation and Characterization of Antibacterial Compounds from Aspergillus Fumigatus: An Endophytic Fungus from a Mangrove Plant of the Sundarbans. *Evidence-Based Complementary and Alternative Medicine*, 2022

Zulkofli, M. C. N. M. Cho Zehri, N. H. Sauti, A. A. Kaemardin, N. Saad, H. S. Hamzah, H. Bunawan, S. N. Baharum, A. Mediani, and O. H. Ahmed

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References

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52. Fernandes, F.H.A.; Salgado, H.R.N. Gallic Acid: Review of the Methods of Determination and Quantification. *Crit. Rev. Anal. Chem.* **2016**, *46*, 257–265. [Google Scholar] [CrossRef]

53. Salau, V.F.; Erukainure, O.L.; Ibeji, C.U.; Olasehinde, T.A.; Koorbanally, N.A.; Islam, M.S. Vanillin and Vanillic Acid Modulate Antioxidant Defense System via Amelioration of Metabolic Complications Linked to Fe2+-Induced Brain Tissues Damage. *Metab. Brain Dis.* **2020**, *35*, 727–738. [Google Scholar] [CrossRef]

54. Jakobek, L. Interactions of Polyphenols with Carbohydrates, Lipids and Proteins. *Food Chem.* **2015**, *175*, 556–567. [Google Scholar] [CrossRef]

55. Theivendren, P.; Kunjappan, S.; Mariappa Hegde, Y.; Vellaichamy, S.; Gopal, M.; Rajan Dhramalingam, S.; Kumar, S. Importance of Protein Kinase and Its Inhibitor: A Review. In *Protein Kinases—Promising Targets for Anticancer Drug Research*; Kumar Singh, R., Ed.; IntechOpen: London, UK, 2021. [Google Scholar]

56. Kciuk, M.; Alam, M.; Ali, N.; Rashid, S.; Glowacka, P.; Sundaraj, R.; Celik, I.; Yahya, E.B.; Dubey, A.; Zerroug, E.; et al. Epigallocatechin-3-Gallate Therapeutic Potential in Cancer: Mechanism of Action and Clinical Implications. *Molecules* **2023**, *28*, 5246. [Google Scholar] [CrossRef]

57. ... M.; Klaus, A.; Jakovljevic, D.; Todorovic, N.; Wan-Mohtar, W.; Niksic, M. Ganoderma Lucidum as a Natural: Antiradical Potential and Inhibitory Effect on Hyperpigmentation and Skin Extracellular Matrix Degradation. *Enzymes. Arch. Biol. Sci.* **2019**, *71*, 253–264. [Google Scholar] [CrossRef]

58. Srisuksomwong, P.; Kaehnin, L.; Mungmai, L. Collagenase and Tyrosinase Inhibitory Activities and Stability of Facial Cream Formulation Containing Cashew Leaf Extract. *Cosmetics* **2023**, *10*, 17. [Google Scholar] [CrossRef]

59. Zolghadri, S.; Bahrami, A.; Hassan Khan, M.T.; Munoz-Munoz, J.; Garcia-Molina, F.; Garcia-Canovas, F.; Saboury, A.A. A Comprehensive Review on Tyrosinase Inhibitors. *J. Enzyme Inhib. Med. Chem.* **2019**, *34*, 279–309. [Google Scholar] [CrossRef] [PubMed]

60. Hyoung Lee, D.; Ho Kim, J.; Sik Park, J.; Jun Choi, Y.; Soo Lee, J. Isolation and Characterization of a Novel Angiotensin I-Converting Enzyme Inhibitory Peptide Derived from the Edible Mushroom *Tricholoma Giganteum*. *Peptides* **2004**, *25*, 621–627. [Google Scholar] [CrossRef]

61. Choi, H.; Cho, H.; Yang, H.; Ra, K.; Suh, H. Angiotensin I-Converting Enzyme Inhibitor from *Grifola Frondosa*. *Food Res. Int.* **2001**, *34*, 177–182. [Google Scholar] [CrossRef]

62. Tran, H.-B.; Yamamoto, A.; Matsumoto, S.; Ito, H.; Igami, K.; Miyazaki, T.; Kondo, R.; Shimizu, K. Hypotensive Effects and Angiotensin-Converting Enzyme Inhibitory Peptides of Reishi (*Ganoderma Lingzhi*) Auto-Digested Extract. *Molecules* **2014**, *19*, 13473–13485. [Google Scholar] [CrossRef] [PubMed]

63. Cateni, F.; Gargano, M.L.; Procida, G.; Venturella, G.; Cirlincione, F.; Ferraro, V. Mycochemicals in Wild and Cultivated Mushrooms: Nutrition and Health. *Phytochem. Rev.* **2022**, *21*, 339–383. [Google Scholar] [CrossRef]

64. Mohanta, T.K. Fungi Contain Genes Associated with Flavonoid Biosynthesis Pathway. *J. Funct. Foods* **2020**, *68*, 103910. [Google Scholar] [CrossRef]

65. Shao, Y.; Guo, H.; Zhang, J.; Liu, H.; Wang, K.; Zuo, S.; Xu, P.; Xia, Z.; Zhou, Q.; Zhang, H.; et al. The Genome of the Medicinal Macrofungus *Sanguang* Provides Insights into the Synthesis of Diverse Secondary Metabolites. *Front. Microbiol.* **2020**, *10*, 3035. [Google Scholar] [CrossRef]

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The screenshot shows a web browser displaying a ResearchGate article. The browser's address bar shows the URL: [https://www.researchgate.net/publication/377310833\\_Physicochemical\\_Antimicrobial\\_and\\_Toxicity\\_Assessments\\_of\\_Anacardium\\_occidentale\\_Cream\\_Formulations](https://www.researchgate.net/publication/377310833_Physicochemical_Antimicrobial_and_Toxicity_Assessments_of_Anacardium_occidentale_Cream_Formulations). The article title is "Physicochemical, Antimicrobial and Toxicity Assessments of Anacardium occidentale Cream Formulations". Below the title, there are navigation tabs: Overview, Stats, Comments, Citations, References (47), and a Download button. The main content area displays a list of references. The references are as follows:

Farahmand, S., Rasooli, A. and Saffarpour, M. 2016. Antifungal activities of methanolic extract of plants. *Electronic Journal of Biology* 1: 42 – 44.

Gisby, J. and Bryant, E. 2002. Efficacy of a new formulation of mupirocin: comparison with oral and topical agents in experimental skin infections. *Antimicrob Agents Chemother* 44 (22): 255 – 260.

Goncalves, G. M. S. and Gobbo, J. 2012. Antimicrobial effect of *Anacardium occidentale* extract and cosmetic formulation development. *Braz. Arch. Biol. Technol.* 55: 6.

Kaenhin, L. and Mungmai, L. 2023. Collagenase and tyrosinase inhibitory activities and stability of facial cream formulation containing cashew leaf extract. *Cosmetics* 10: 17.

Kale, S., Bhandare, S., Gaikwad, M., Urunkar, V. and Rajmane, A. 2011. Formulation and in vitro evaluation for sun protection factor of Lutein ester extracted from *Tagetes erecta* Linn flower (Family – Asteraceae) sunscreen creams. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 2 (3): 497 – 455.

Kamath, H. and Sivakumar, A. 2017. Microemulsion based formulation as drug delivery system for gliclazide. *Indian J of Pharmaceutical Education and Research* 51 (4S): S571 – S59.

Kamkaen, N., Phuntuwate, W., Samee, W., Boonrod, A. and Treesak, C. 2007. The investigation of the rabbit and human skin irritation of herbal anti-wrinkle cream. *Thai Pharmaceutical and Health Science Journal* 2: 1.

Kuo, S. H., Shen, C. J., Shen, C. F. and Cheng, C. M. 2020. Role of pH value in clinically relevant diagnosis. *Diagnostics (Basel)*. 10 (2): 107.

Li, S., Odedina, S., Agwai, I. et al. 2020. Traditional medicine usage among adult women in Ibadan, Nigeria: a cross-sectional study. *BMC Complement Med Ther* 20: 93.

Lim, C. N., Choon, S. L., Bee, B. L., Ratna, M. T., Xue, T. T. and Min, M. T. 2023. Fungus isolated from Mlozi, S. H., Mmongoyo, J. A. and Chacha, M. N. 2023. In vitro evaluation of the herbal cream formulation from methanolic leaf extracts of *Tephrosia vogelii* Hook. for topical application. *Clin Phytosci* 9: 3.

Mochizuki, T., Tsuboi, R., Iozumi, K., Ishizaki, S., Ushigami, T., Ogawa, Y., et al. 2019. Guidelines for the management of dermatomycosis (2019). *Journal of Dermatology* 47 (12): 1343 – 1373.

Mohiuddin, A. K. 2019. Skin Care Creams: Formulation and Use. *OSP J Clin Trials* 1: JTS-1-103.

Nair, S. S., Mathew, M. and Sreena, K. 2012. Evaluation of skin irritation of herbal antioxidant cream. *Asian Journal of Biochemical and Pharmaceutical Research* 3: 2.

Organization for Economic Co-operation and Development (OECD). 2002. Guideline for the testing of chemicals. Test No. 404: *Acute dermal irritation/corrosion*. doi: 10.1787/9789264070622-en.

Orwa, C., Mutua, A., Kindt, R., Jamnadass, R. and Anthony, S. 2009. Agroforestry Database: a tree reference and selection guide version 4.0. World Agroforestry Centre, Kenya.

Ratnam, S., Hogan, K., March, S. B. and Butler, R. W. 2017. Whirlpool-associated folliculitis caused by *Pseudomonas aeruginosa*: report of an outbreak and review. *Clinical Journal of Microbiology* 55: 9.

Rogeria, H. L. V., Fabia, B. C. and Camila, G. P. 2018. Determining and modelling of thermal and rheological properties of cashew apple by-products. *Engineering and Applied Sciences*. 3 (1): 29 – 39.

Satpute, K. L. and Kalyankar, T. M. 2019. Development and evaluation of herbal cream for the treatment of acne. *Journal of Pharmacognosy and Phytochemistry* 8 (3): 2618 – 2624.

Sepahvand, A., Eliasy, H., Mohammadi, M., Safarzadeh, A., Azarbaijani, K., Shahsavari, S., Alizadeh, M. and Beyranvand, F. 2018. A review of the most effective medicinal plants for dermatophytosis in traditional

#### 4. <https://dergipark.org.tr/tr/pub/uluaricilik/issue/80885/1355264>

ract encapsulated by spray-drying, spray-chilling and using the combination of both techniques. *Food Research International*, 2023;164:112423

“ Sawicki T, Starowicz M, Klębukowska L, Hanus P. The profile of polyphenolic compounds, contents of total phenolics and flavonoids, and antioxidant and antimicrobial properties of bee products. *Molecules*, 2022;27(4):1301

“ Slinkard K, Singleton VL. Total phenol analysis: automation and comparison with manual methods. *American journal of enology and viticulture*, 1977;28(1):49-55

“ Sonika P, Akanksha S, Rajesh T, Sunita S, Suman S. Development and evaluation of antimicrobial herbal cosmetic preparation. *African journal of Pharmacy and Pharmacology*, 2014;8(20):514-528

“ Sönmez E. Investigation of chemical content and antimicrobial activities of different plant sources of Anatolian propolis samples. *U. Ari D.-U. Bee J.*, 2023;23(1):37-48

“ Srisuksomwong P, Kaenhin L, Mungmai L. Collagenase and tyrosinase inhibitory activities and stability of facial cream formulation containing cashew leaf extract. *Cosmetics*, 2023;10(1):17

“ Tanuğur Samancı AE, Kekeçoğlu M. Development of a cream formulation containing bee venom and other bee products. *Journal of Cosmetic Dermatology*, 2022;21(10):4913-4920

“ TİTCK. Kozmetik ürünlerin mikrobiyolojik kontrolüne ilişkin kılavuz. <https://www.titck.gov.tr/mevzuat/kozmetik-urunlerin-mikrobiyolojik-kontrolune-iliskin-kilavuz-surum-1-0-27122018172953>, 2023, (erişim tarihi: 15.08.2023)

“ Tranggono RI, Latifah F. *Cosmetic Science Handbook*. PT Gramedia, Jakarta, Indonesia, 2007, p.11-32

“ Turkut GM, Er M, Değirmenci A. Evaluating bioactivity and bioaccessibility properties of Turkish propolis extracts prepared with various solvents. *Journal of Apitherapy and Nature*, 2019;2(1):7-11

“ Yahaya YA, Don MM. Evaluation of *Trametes lactinea* extracts on the inhibition of hyaluronidase, lipoxigenase and xanthine oxidase activities in vitro. *Journal of Physical Science*, 2012;23:1-15

“ Yasin A, Ren Y, Li J, Sheng Y, Cao C, Zhang K. Advances in hyaluronic acid for biomedical applications. *Frontiers in Bioengineering and Biotechnology*, 2022;10:910290

“ Yıldız O. Tüketilebilir propolis ekstralarında kullanılan çözücülerin (menstrumların) değerlendirilmesi. *U. Ari D.-U. Bee J.* 2020;20(1):24-37

“ Yıldız O, Boyracı GM. Production and some quality parameters of sugar beet sweets (Pestil and Köme). *Sugar Technology*, 2020;22(5):842-852

“ Yorgancıoğlu A. Bazı uçucu yağlarla kollajen içerikli antimikrobiyal krem üretilebilirliği üzerine araştırmalar. Ege Üniversitesi, Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, İzmir, 2012, (erişim tarihi: 21.08.2023)

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