

DAFTAR PUSTAKA

- Akihisa, T., Yasukawa, K., Yamaura, M., Ukiya, M., Kimura, Y., Shimizu, N., & Arai, K. (2000). Triterpene Alcohol and Sterol Ferulates from Rice Bran and Their Anti-inflammatory Effects. *J. Agric. Food Chem.*, 48(6), 2313-2319.
- Ali, A., & Devarajan, S. (2017). *Brown Rice*. Springer International Publishing.
- Ammar, H. O., Al-Okbi, S. Y., Mostafa, D. M., & Helal, A. M. (2012). Rice Bran Oil: Preparation and Evaluation of Novel Liquisolid and Semisolid Formulations. *Int. J. Pharm. Compd.*, 16(6), 516-523.
- Anwar, R. (2005). Meta Analisis. *Fertilitas Endokrinologi Reproduksi bagian Obstetri dan Ginekologi RSHS/FKUP Bandung* (hal. 1-19). Bandung: Universitas Padjajaran.
- Badan Pusat Statistik (BPS). (2022). Pada 2022, Luas Panen Padi Diperkirakan Sebesar 10,61 Juta Hektare dengan Produksi Sekitar 55,67 Juta Ton GKG. Diakses pada 30 Maret 2023, dari <https://www.bps.go.id/pressrelease/2022/10/17/1910/pada-2022--luas-panen-padi-diperkirakan-sebesar-10-61-juta-hektare-dengan-produksi-sekitar-55-67-juta-ton-gkg.html>
- Balachandran, C., Mayamol, P. N., Thomas, S., Sukumar, D., Sundaresan, A., & Arumughan, C. (2008). An Ecofriendly Approach to Process Rice Bran for High Quality Rice Bran Oil Using Supercritical Carbon Dioxide for Nutraceutical Applications. *Bioresource Technology*, 2905-2912.
- Benito-Román, O., Varona, S., Sanz, M. T., & Beltrán, S. (2019). Valorization of Rice Bran: Modified Supercritical CO<sub>2</sub> Extraction of Bioactive Compounds. *Journal of Industrial and Engineering Chemistry*, 80, 273-282.
- Bergman, C. J., & Xu, Z. (2003). Genotype and Environment Effects on Tocopherols, Tocotrienols and Gamma-oryzanol Contents of Southern US Rice. *Cereal Chem.*, 80(4), 446-449.
- Boonsit, P., Pongpiachan, P., Julsrigival, S., & Karladee, D. (2010). Gamma Oryzanol Content in Glutinous Purple Rice Landrace Varieties. *C.M.U. J. Nat. Sci.*, 9, 151-157.
- Capuzzo, A., Maffei, M. E., & Occhipinti, A. (2013). Supercritical Fluid Extraction of Plant flavors and Fragrances. *Molecules*, 18, 7194-7238.
- Duvernay, W. H., Assad, J. M., Sabliov, C. M., Lima, M., & Xu, Z. (2005). Microwave Extraction of Antioxidant Components from Rice Bran. *Pharmaceutical Engineering*, 25, 126-130.

- Fang, N. B., Yu, S. G., & Badger, T. M. (2003). Characterization of Triterpene Alcohol and Sterol Ferulates in Rice Bran using LC–MS/MS. *J. Agric. Food Chem.*, *51*, 3260-3267.
- Farahmandfar, R., Asnaashari, M., & Sayyad, R. (2015). Comparison Antioxidant Activity of Tarom Mahali Rice Bran Extracted from Different Extraction Methods and Its Effect on Canola Oil Stabilization. *J. Food. Sci. Technol.*, *52*(10), 6385–6394.
- Florez, N., Conde, E., & Dominguez, H. (2015). Microwave Assisted Water Extraction of Plant Compounds. *J. Chem.*, *90*, 590-607.
- Friedman, M. (2013). Rice Brans, Rice Bran Oils, and Rice Hulls: Composition, Food and Industrial Uses, and Bioactivities in Humans, Animals, and Cells. *J. Agric. Food Chem.*, *61*(45), 10626-10641.
- Fujita, A., Fujitake, H., Kawakami, K., & Nomura, M. (2010). Antioxidant Activity of Colored Rice Bran Obtained at Different Milling Yields. *J. Oleo Sci.*, *59*, 563-568.
- Ge, Y., Ni, Y., Yan, H., Chen, Y., & Cai, T. (2002). Optimization of The Supercritical Fluid Extraction of Natural Vitamin E from Wheat Germ Using Response Surface Methodology. *J. Food Sci.*, *67*, 239-243.
- Ghasemzadeh, A., Jaafar, H. Z., Juraimi, A. S., & Tayebi-Meigooni, A. (2015). Comparative Evaluation of Different Extraction Techniques and Solvents for the Assay of Phytochemicals and Antioxidant Activity of Hashemi Rice Bran. *Molecules*, *20*, 10822-10838.
- Ghosh, M. (2007). Review on Recent Trends in Rice Bran Oil Processing. *Journal of the American Oil Chemists' Society*, *84*(4), 315-324.
- Haidich, A. B. (2010). Meta Analysis in Medical Research. *Hippokratia*, 29-37.
- Hanmoungjai, P., Pyle, D. L., & Niranjana, K. (2001). Enzymatic Process for Extracting Oil and Protein from Rice Bran. *Journal of the American Oil Chemists' Society*, *78*(8), 817-821.
- Kalantari, K., Moniri, M., Moghaddam, A. B., Rahim, R. A., Ariff, A. B., Izadiyan, Z., & Mohamad, R. (2017). A Review of The Biomedical Applications of Zerumbone and The Techniques for Its Extraction from Ginger Rhizomes. *Molecules*, *22*(10), 1-24.
- Kappe, C. O., Dallinger, D., & Murphree, S. S. (2009). *Practical Microwave Synthesis for Organic Chemists: Strategies, Instruments, and Protocols*. Weinheim: Wiley-VCH.
- Khoddami, A., Wilkes, M. A., & Roberts, T. H. (2013). Techniques for Analysis of Plant Phenolic Compounds. *Molecules*, *18*(2), 2328-2375.

- Kim, J. S., & Godber, J. S. (2001). Oxidative Stability and Vitamin E Levels Increased in Restructured Beef Roast with Added Rice Bran Oil. *J. Food Qual.*, 24, 17-26.
- Kim, J. S., & Godber, J. S. (2001). Oxidative Stability and Vitamin E Levels Increased in Restructured Beef Roast with Added Rice Bran Oil. *J. Food Qual.*, 24, 17-26.
- Krauss, R. M., Eckel, R. H., Howard, B., Daniels, L. J., Deckelbaum, R. J., Erdman Jr, J. W., . . . Killian. (2000) AHA Dietary Guidelines. Diakses pada 10 April 2023, dari <https://www.ahajournals.org/doi/10.1161/01.cir.102.18.2284>
- Kumar, P., Yadav, D., Kumar, P., Panesar, P. S., Bunkar, D. S., Mishra, D., & Chopra, H. K. (2016). Comparative Study on Conventional, Ultrasonication and Microwave Assisted Extraction of  $\gamma$ -Oryzanol from Rice Bran. *J Food Sci Technol*, 53(4), 2047–2053.
- Lai, M. H., Chen, Y. T., Chen, Y. Y., Chang, J. H., & Cheng, H. H. (2012). Effects of Rice Bran Oil on The Blood Lipids Profiles and Insulin Resistance in Type 2 Diabetes Patients. *J. Clin Biochem Nutr.*, 51(1), 15-18.
- Latha, R. B., & Nasirullah, D. R. (2014). Physico-chemical Changes in Rice Bran Oil During Eating at Frying Temperature. *J. Food Sci. Technol.*, 51, 335-340.
- Lloyd, B. J., Siebenmorgen, T. J., & Beers, K. W. (2000). Effects of Commercial Processing on Antioxidants in Rice Bran. *Cereal Chem.*, 77, 551-555.
- Lucas, E. W. (2000). Oilseeds and Oil-Bearing Materials. Dalam Z. K. J., & K. Kulp, *Handbook of Cereal Science and Technology* (hal. 297-362). New York: Marcel Dekker Inc.
- Luh, B. S., Barber, S., & Barber, C. B. (1991). *Rice Bran: Chemistry and Technology*. In: *Luh BS (ed) Rice production and utilization*. New York: Van Nostrand Reinhold.
- Mariod, A., Ismail, M., Sekar, H., & Okatan, V. (2020). Comparison of Supercritical Fluid and Solvent Extraction Methods in Extracting Bioactive Compounds and Minor Components of Rice Bran Oil. *Carpathian Journal of Food Science and Technology*, 12(4), 113-124.
- Metwally, A. M., Habib, A. M., & Khafagy, S. M. (1974). Sterols and Triterpene Alcohols from Rice Bran Oil. *Planta Med.*, 25, 68-72.
- Mezouri, S., & Eichner, K. (2007). Comparative Study on The Stability of Crude and Refined Rice Bran Oil during Long-term Storage at Room Temperature. *Eur. J. Lipid Sci. Technol.*, 109, 98-205.

- Mingyai, S., Kettawan, A., Srikaeo, K., & Singanusong, R. (2017). Physicochemical and Antioxidant Properties of Rice Bran Oils Produced from Colored Rice Using Different Extraction Methods. *Journal of Oleo Science*, 66(6), 565-572.
- Nisa, F. C. (2010). Ekstaksi Antioksidan Alami dari Sorgum Lokal Varietas Cokelat serta Peningkatan Aktivasinya dengan Perkecambahan dan Gelombang Mikro. *Jurnal Teknologi Pertanian*, 11(3), 184-196.
- Norton, R. A. (1995). Quantitation of Steryl Ferulate and P-coumarate Esters from Corn and Rice. *Lipids*, 30(3), 269-274.
- Pandey, R., & Shrivastava, S. L. (2018). Comparative Evaluation of Rice Bran Oil Obtained with Two-Step Microwave Assisted Extraction and Conventional Solvent Extraction. *Journal of Food Engineering*, 218, 106-114.
- Patel, M., & Naik, S. N. (2004). Gamma-oryzanol from Rice Bran Oil-A Review. *J. Sci Ind. Res.*, 63(7), 569-578.
- Pestana-Bauer, V. R., Zambiasi, R. C., Mendonca, C. R., Beneito-Cambra, M., & Ramis-Ramos, G. (2012). Gamma-Oryzanol and Tocopherol Contents in Residues of Rice Bran Oil Refining. *Food Chemistry*, 134(3), 1479-1483.
- Phan, V. M., Junyusen, T., Liplap, P., & Junyusen, P. (2018). Effects of Ultrasonication and Thermal Cooking Pretreatments on The Extractability and Quality of Cold Press Extracted Rice Bran Oil. *Journal of Food Process Engineering*, 42(2).
- Phan, V. M., Tran, C. H., Thi, T. H., & Duong, C. T. (2023). Effects of Ultrasound Assisted Extraction on Efficiency and Quality of Rice Bran Oil. *Current Applied Science and Technology*, 23(4), 1-13.
- Purwanto, A., Fajriyati, A. N., & Wahyuningtyas, D. (2014). Pengaruh Jenis Pelarut terhadap Rendemen dan Aktivitas Antioksidan dalam Ekstrak Minyak Bekatul Padi. *Ekuilibrum*, 13(1), 29-34.
- Radzali, S. A., Baharin, B. S., Othman, R., Markom, M., & Rahman, R. A. (2014). Co-Solvent Selection for Supercritical Fluid Extraction of Astaxanthin and Other Carotenoids from *Penaeus monodon* Waste. *J. Oleo Sci.*, 63, 769-777.
- Ryu, S. N., Park, S. Z., & Ho, C. T. (1998). High Performance Liquid Chromatographic Determination of Anthocyanin Pigments in Some Varieties of Black Rice. *J. Food Drug Anal*, 6, 729-736.
- Saenjum, C., Chaiyasut, C., Chansakaow, S., Suttajit, M., & Sirithunyalug, B. (2012). Antioxidant and Anti-inflammatory Activities of Gamma-Oryzanol Rice Extracts from Thai Purple Rice Bran. *J. Med. Plants Res.*, 6, 1070-1077.

- Sayre, B., & Saunders, R. (1990). Rice Bran and Rice Bran Oil. *Lipid Technol.*, 2, 72-76.
- Shahbandeh, M. (2023). Total Rice Consumption Worldwide from 2008/2009 to 2022/2023 (in 1,000 metric tons). Diakses pada 10 April 2023, dari <https://www.statista.com/statistics/255977/total-global-rice-consumption/>
- Shammugasamy, B., Ramakrishnan, Y., Ghazali, H. M., & Muhammad, K. (2014). Tocopherol and Tocotrienol Contents of Different Varieties of Rice in Malaysia. *J. Sci. Food Agric.*, 95, 672–678.
- Siddhuraju, P., & Becker, K. (2003). Antioxidant Properties of Various Solvent Extracts of Total Phenolic Constituents from Three Different Agroclimatic Origins of Drumstick Tree (*Moringa oleifera* Lam.) Leaves. *J. Agric. Food Chem*, 51, 2144–2155.
- Sompong, R., Siebenhandl-Ehn, S., Linsberger-Martin, G., & Berghofer, G. E. (2011). Physicochemical and Antioxidative Properties of Red and Black Rice Varieties from Thailand, China and Sri Lanka. *Food Chem.*, 124, 132-140.
- Stalikas, C. D. (2007). Extraction, Separation, and Detection Methods for Phenolic Acids and Flavonoids. *J. Sep. Sci.*, 30, 3268-3295.
- Sultana, B., Anwar, F., & Przybylski, R. (2007). Antioxidant Activity of Phenolic Components Present in Barks of *Azadirachta indica*, *Terminalia arjuna*, *Acacia nilotica*, and *Eugenia jambolana* Lam. trees. *Food Chem*, 104, 1106–1114.
- Suryati, Ismail, A., & Afriyanti. (2015). Proses Pembuatan Minyak Dedak Padi (Rice Bran Oil) Menggunakan Metode Ekstraksi. *Jurnal Teknologi Kimia Unimal 4 : 1*, 4(1), 37-45.
- Talmaciu, A. I., Volf, I., & Popa, V. I. (2015). A Comparative Analysis of The “Green” Techniques Applied for Polyphenols Extraction from Bioresources. *Chem. Biodivers.*, 12, 1635-1651.
- United States Department of Agriculture (USDA). (2022). World Agricultural Production. Diakses pada 30 Maret 2023, dari <https://www.fas.usda.gov/data/world-agricultural-production>
- Wendersteyt, N. V., Wewengkang, D. S., & Abdullah, S. S. (2021). Uji Aktivitas Antimikroba dari Ekstrak dan Fraksi Ascidan *Herdmani momus* dari Perairan Pulau Bangka Likupang terhadap Pertumbuhan Mikroba *Staphylococcus aureus*, *Salmonella typhimurium* dan *Candida albicans*. *Pharmacon*, 10(1), 706-712.
- Wilson, T., Ausman, L., Lawton, C., Hegsted, D., & Nicolosi, R. (2000). Comparative Cholesterol Lowering Properties of Vegetable Oils: Beyond Fatty Acids. *J. Am. Coll. Nutr.*, 19(5), 601-607.

- Wilson, T., Ausman, L., Lawton, C., Hegsted, D., & Nicolosi, R. (2000). Comparative Cholesterol Lowering Properties of Vegetable Oils: Beyond Fatty Acids. *J. Am. Coll. Nutr.*, 19(5), 601-607.
- Xu, Z., & Godber, J. S. (2000). Comparison of Supercritical Fluid and Solvent Extraction Methods in Extracting  $\gamma$ -Oryzanol from Rice Bran. *Journal of American Oil Chemists Society*, 77, 547-551.
- Yen, H., Yang, S., Chen, C., Jesisca, & Chang, J. (2015). Supercritical Fluid Extraction of Valuable Compounds from Microalgal Biomass. *Bioresour. Technol.*, 184, 291-296.
- Zhang, H. F., Yang, X. H., & Wang, Y. (2011). Microwave Assisted Extraction of Secondary Metabolites from Plants: Current Status and Future Directions. *Trends Food Sci. Technol.*, 22, 672-688.
- Zigoneanu, I., Williams, L., Xu, Z., & Sabliov, C. M. (2008). Determination of Antioxidant Components in Rice Bran Oil Extracted by Microwave-Assisted Method. *Bioresource Technology*, 99, 4910–4918.