



Biotehnologii și produse naturale bioactive

Topics

1. Classification of polyphenolic compounds in plant matrices
2. Methods and procedures for the extraction of bioactive compounds from plant matrices
3. General analytical methods used in the analysis of plant-based products
4. The use of high-performance liquid chromatography (HPLC) in the analysis of natural products

Bibliography

1. *European Pharmacopoeia 11.8 - 2.8. Methods in pharmacognosy*. accessed on November, 16th, 2025, available at <https://pheur.edqm.eu/app/11-8/search?chapter=225153&title=2.8.%20%20Methods%20in%20pharmacognosy>
2. Kromidas, S. (2004). *More Practical Problem Solving in HPLC*. Wiley. <https://doi.org/10.1002/9783527612307>
3. Mukherjee, P. K. (2019a). Bioactive Phytocomponents and Their Analysis. In *Quality Control and Evaluation of Herbal Drugs* (pp. 237–328). Elsevier. <https://doi.org/10.1016/B978-0-12-813374-3.00007-7>
4. Mukherjee, P. K. (2019b). Bioassay-Guided Isolation and Evaluation of Herbal Drugs. In *Quality Control and Evaluation of Herbal Drugs* (pp. 515–537). Elsevier. <https://doi.org/10.1016/B978-0-12-813374-3.00013-2>
5. Mukherjee, P. K. (2019c). Extraction and Other Downstream Procedures for Evaluation of Herbal Drugs. In *Quality Control and Evaluation of Herbal Drugs* (pp. 195–236). Elsevier. <https://doi.org/10.1016/B978-0-12-813374-3.00006-5>
6. Tsimogiannis, D., & Oreopoulou, V. (2019). Classification of Phenolic Compounds in Plants. In *Polyphenols in Plants* (pp. 263–284). <https://doi.org/10.1016/b978-0-12-813768-0.00026-8>

