Pretreatment, Separation and Purification Techniques for Food Industry Waste Utilization

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ABSTRACT

Agro-food processing industry waste and byproducts are rich sources of many useful biochemicals. The major challenges of utilizing this resource are encountered during storage and segregation and can be further attributed to the complexity and uniqueness of each of these biomatrices. The interaction between the inherent components enhances the deterioration process, as observed in any other biomaterial. Hence, necessary precautions and additional steps are required for maximum utilization of these resources. Advanced pretreatment techniques, extraction and separation techniques have reduced the challenges faced due to the physico-chemical properties of the biomatrices. This mini paper presents the general challenges encountered and solutions along with examples of different case studies.

Keywords: Food industry, Agro-food processing, Biomatrices.

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