

# Read Free Solid Liquid Extraction Of Bioactive Compounds Effect Of

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Extraction of bioactive compounds from natural products is of growing research interest. The present study focuses on the role of polydispersity in analyzing the kinetic curves of solid-liquid...

[Solid-liquid extraction of bioactive compounds: Effect of ...](#)

The aqueous batch extraction of bioactive compounds from yerba mate leaves was evaluated in view of their potential application in the food industry. The influence of temperature (20 – 80 ° C) and stirring (0 – 400

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rpm) was investigated by central composite design.

## ~~Solid—liquid extraction of bioactive compounds from yerba ...~~

The temperature dependence on the global kinetics of both methanol and 1-butyl-3-methylimidazolium acesulfamate ([C 4 mim][Ace])-supported extraction of the bioactive alkaloid S-(+)-glaucine from plant material of *Glaucium flavum* Crantz (Papaveraceae) was measured and a comparative analysis in respect to the extractant type was performed. The experimental data was fitted with high coefficients ...

## ~~Ionic liquid supported solid—liquid extraction of ...~~

Solid-liquid extraction of bioactive components from the hemp Solid-liquid extraction was performed according to the conditions defined using Box-Behnken experimental design (Table 1). Certain mass of dried hemp material was placed in a 50 mL glass beaker with certain volume of ethanol/water solvent.

## ~~OPTIMIZATION OF ETHANOL/WATER SOLVENT EXTRACTION OF ...~~

technique using ultrasounds (UAE) and a cyclically pressurized solid-liquid extraction with the Naviglio extractor (NE) or Rapid Solid-Liquid Dynamic Extraction (RSLDE) was performed, in order to obtain qualitative and quantitative data related to bioactive compounds of saffron.

## ~~EXTRACTION OF BIOACTIVE COMPOUNDS OF SAFFRON (CROCUS ...)~~

Solid-liquid extraction: Temperature (333.15 K), solid/liquid ratio (1:10), time (100 min) Total phenolic content (TPC) • TPC: 3.61 mg GAE/g • Antioxidant potential: 30.6  $\mu$ g/ml. DES used with ethylene glycol and glycerol showed higher yield as compared to conventional solvent (aq. Ethanol 30 wt water) for

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phenolic compounds extraction

~~Beneficiation of food processing by products through ...~~

Solid-liquid extraction is similar to liquid-liquid extraction, except that the solute is dispersed in a solid matrix rather than in a carrier liquid. The solid phase, containing the solute, is dispersed in the solvent and mixed. The solute is extracted from the solid phase to the solvent, and the solid phase is then removed by filtration.

~~Solid-Liquid Extraction | Protocol~~

Following the general research trends, this paper presents the performance of water solutions of a series of hydrophilic 1-alkyl-3-methylimidazolium-based ionic liquids as extractants for the solid – liquid extraction of S-(+)-glaucine from plant material of *G. flavum* Cr. It is noteworthy that amongst the alkaloids known to be present in this plant, glaucine is the only one of industrial interest.

~~Ionic liquid-supported solid – liquid extraction of ...~~

Solid/liquid extraction and expression are widely used for the production of fruit juices, wines, sugar, vegetable oils and starch, as well as for the extraction of different molecules of agricultural origin (carbohydrates or polysaccharides, proteins, aromas, flavours, etc.).

~~Solid/Liquid Extraction and Expression | SpringerLink~~

(2016). Ionic liquid-supported solid – liquid extraction of bioactive alkaloids. IV. New HPLC method for quantitative determination of galantamine in *Leucojum aestivum* L. (*Amaryllidaceae*) Separation Science

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and Technology: Vol. 51, Separation Science: Theory and Practice 2015, pp. 2691-2699.

## ~~Ionic-liquid-supported solid—liquid extraction of ...~~

To enhance the extraction and separation of such hydrophobic bioactive compounds in aqueous media, Jin et al. proposed a family of new water/IL mixtures with amphiphilic anionic functional long-chain carboxylate ILs (LCC-ILs) for the simultaneous dissolution of biomass and extraction of hydrophobic bioactive compounds. The LCC-ILs investigated possess weak polarity and strong hydrogen-bonding basicity simultaneously, thus displaying a high solubility for numerous hydrophobic natural ...

## ~~Ionic-Liquid-Mediated Extraction and Separation Processes ...~~

From this point of view, rapid solid-liquid dynamic extraction (RSLDE), performed using the Naviglio extractor, compared to traditional applications, is a technique that is able to reduce extraction times, generally leads to higher yields, does not require heating of the system, allows one to extract the active ingredients, and avoids their degradation.

## ~~Rapid Solid-Liquid Dynamic Extraction (RSLDE): A Powerful ...~~

The mechanism for extraction bioactive compounds from plant matrix is essential for optimizing the extraction process. As a benchmark technique, a soxhlet extraction has been utilized for...

## ~~(PDF) Mechanisms of Ginger Bioactive Compounds Extract ...~~

Summary Bioactive compounds from Brazilian hop (*Humulus lupulus* L.) cultivars were extracted by ultrasound and their phenolic profile compared with commercial hop from the USA. The most effective

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extraction conditions (solution of ethanol 49%, at 52 ° C and a solid/liquid ratio of 1 g per 34 mL) for the total phenolic

~~Bioactive compounds and antioxidant activities of...~~

MTS extraction was evaluated for recapturing bioactive compounds of pomegranate peel waste. The influence of extraction time (0.5-3 min), temperature (25-50 ° C), and pressure (100-500 kPa) on the yield of total phenolic content (TPC) and antioxidant activity (AOA) was assessed.

~~Solid-Liquid Extraction by Manothermosonication ...~~

Afterward, the yield of the mentioned bioactive compounds derived from eggplant peel extracts was optimized through managing several MAE parameters such as microwave power, extraction time, liquid – solid ratio, ethanol concentration, and pH of the solvent.

~~Evaluation and optimization of microwave-assisted ...~~

A method combining solid-liquid extraction based on ethanolic aqueous solution, cLC-DAD and chemometrics, was performed to extract and quantify polyphenols from citrus peels. LC-MS/MS was also employed for chemical profiling. The effect of extraction variables on the recovery was examined by experimental factorial design.

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