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## **Solid Liquid Extraction Of Bioactive**

Solid-liquid extraction  
is the most common  
technique for  
extracting compounds  
from natural products  
such as plant flowers,

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leaves, fruits, and roots. According to Fig. 6.1, the schematic model features a short extraction process in which the solute (compound of interest) is separated from a mixture of solids by dissolving it in a liquid phase. There are three components in solid-liquid extraction.

## **Solid Liquid Extraction - an overview |**

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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 extraction and determining the effective diffusion coefficients in the solid.

### **Solid-liquid extraction of**

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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 rpm) was investigated by central composite design.

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Solid-liquid extraction  
of bioactive  
compounds from yerba  
mate (*Ilex*  
*paraguariensis* )  
leaves: Experimental  
study, kinetics and  
modeling

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yerba ...**

The temperature dependence on the global kinetics of both methanol and 1-butyl-3-methylimidazolium acesulfamate ([C<sub>4</sub>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

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respect to the  
extractant type was  
performed. The  
experimental data was  
fitted with high  
coefficients ...

## **Ionic liquid- supported solid-liquid extraction of ...**

In the case of a  
continuous solid-liquid  
extraction at high  
temperature (60 °C)  
ethanol 50% is the best  
solvent, providing the

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highest diffusion rate and the highest number of extracted polyphenols. As shown in Figure 4, the used model (Equation (8)) is able to well predict the experimental data in all the cases.

## **Continuous or Batch Solid-Liquid Extraction of Antioxidant ...**

Crude extraction of  
bioactive compounds

The simultaneous

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extraction of ACN, GL, IGL and HCA from the dried rinds of GI was tried initially with the pure solvents like water, acidified water, ethanol and 1-propanol (Fig. 1 (a-d)). The solid-liquid (S/L) ratio of the extraction process also studied for all the solvents.

### **Simultaneous extraction of four different bioactive**

...

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Solid-liquid extraction  
In this technique, the  
solid matrix passes  
through a solvent that  
comes in contact with  
the matrix. Mass  
transfer operation can  
be increased by  
making changes in the  
boundary layer or  
diffusion coefficients  
and concentration  
gradients (Corrales and  
others 2009 ).

**Fruit and Vegetable  
Waste: Bioactive**

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## **Compounds, Their ...**

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.

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## **Solid-Liquid Extraction | Protocol**

The aim of this study was to extract and identify the major constituents, namely, the indole alkaloids, from two Apocynaceae medicinal plant family sp...

## **Extraction of Bioactive Compounds from Catharanthus roseus**

...

The first section of the

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volume describes recent advances in the extraction of bioactive compounds from various sources. It looks at advanced extraction techniques such as enzyme-assisted, microwave-assisted, ultrasound-assisted, pressurized liquid extraction, and supercritical extraction techniques, which are described in detail.

**Bioactive**

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## Compounds: Effect

## Extraction ...

Ultrasonic extraction gives higher yields of bioactive compounds (e.g. cannabinoids, CBD, THC, polyphenols, terpenes etc.) from botanicals. Read more about u...

## Ultrasonic Extraction of Bioactive Compounds

Muricidae are marine molluscs known for the

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production of Tyrian purple and bioactive precursor compounds. A validation study for the extraction and analysis of secondary metabolites found in the hypobranchial gland of the muricid *Dicathais orbita* is reported, using high performance liquid chromatography-mass spectrometry (HPLC-MS) with diode array detector (DAD).

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## Of Bioactive Compounds Effect Of **Extraction and quantification of bioactive Tyrian purple ...**

The disparity in solubility of an analyte in two immiscible solvents is harnessed for its extraction. For the extraction of the four bioactive constituents of coffee, LLE can be practiced by extracting these analytes from aqueous medium to an organic one.

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## **Bioactive Compounds Effect Micronutrients in Coffee: Recent Analytical ...**

(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 and Technology; Vol. 51,

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

## **Ionic liquid- supported solid-liquid extraction of ...**

Traditional extraction techniques such as Soxhlet, solid- liquid extraction (SLE), or liquid liquid extraction (LLE) are characterized by high volumes of solvents and long extraction times. These

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techniques often produce low extraction yields of bioactive components and present low selectivity [6]. To overcome the limitations of these

## **Microwave Assisted Extraction of Bioactive**

**Compounds from ...**

Extraction of bioactive compounds Separation & Detection . CRITICAL STEPS WITHIN

EXTRACTION... Solid -

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50-200 ...  
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## **METHODS FOR EXTRACTION, PURIFICATION AND CHARACTERIZATION**

...

The IL-supported solid-liquid extraction experiments were carried out in an open to the atmosphere 100 mL round-bottomed flask, equipped with a condenser and an internal thermal probe.

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The temperature of the medium was maintained at a constant level by heating with magnetic stirrer, equipped with PEG-400 bath.

## **Ionic liquid- supported solid-liquid extraction of ...**

Explore the latest publications in the niche of Solid-liquid extraction & Whole Exome Sequencing



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