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Optimisation Of Extraction Of Thymol

was found that higher concentration of

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thymol was observed in the oil extracted using ethanol. The optimum extraction conditions were 6 hours with ratio of solid to solvent of 1:30.

Keywords: *Plectranthus amboinicus*, Essential oil, Soxhlet extraction, Gas chromatography analysis, Response surface methodology (RSM)

1. Introduction

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The optimal extraction temperature for maximum phenolic content and antioxidant activity associated with methanol extraction was 60 °C, whereas a lower temperature at 40 °C was required to ...

(PDF) Extraction, optimisation and characterisation of

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Thymol is very soluble in both solvents, particularly in ethanol (~900 mg g⁻¹) at ~40 °C), and is the main compound (in terms of peak area) present in the essential oil extracts obtained.

CONCLUSION: The three solvents show good capacity to extract thymol from *T. vulgaris* and *T. zygis* by PLE.

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**Extraction of thymol
from different
varieties of thyme ...**

Optimization of
Concentration of
Thymol from Extraction
of *P. amboinicus*
Respond surface
methodology was used
to optimize the process
parameter of *P.*
amboinicus extraction
using UAE. Central
composite design
(CCD) was selected to
fit the model using the
least squares

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technique.

Thymol From
**Ultrasonic-Assisted
Extraction (UAE)
Process on Thymol**

...

model for thymol
extraction using UAE.
The parameters for
optimization were the
temperature of
extraction (40 to 60 C),
extraction time (20 to
40 min), and the solid
to solvent ratio (1:30 to
1:40 g/mL). The
optimal UAE conditions

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were found at a temperature of 55 C, 23 min of extraction, and a solid-solvent ratio of 1:35 g/mL.

Ultrasonic-Assisted Extraction (UAE) Process on Thymol

...

Optimized values of factors affecting the extraction of thymol and carvacrol.

According to the calibration curves, thymol and carvacrol

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amounts in thyme for the optimum condition were found to be 1.168 and 0.859 mg, respectively, per 1 g of dried plant sample.

These values show that 0.1168% and 0.0859% (W/W) of thyme are thymol and carvacrol.

Multivariate optimization of hydrodistillation-headspace ...

The hDES comprising thymol and heptanoic

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Plectranthus

acid (HA) exhibited the highest extraction efficiency for ofloxacin, norfloxacin, ciprofloxacin, and enrofloxacin.

Optimization via the one-variable-at-a-time strategy revealed that a 2:1 ratio of thymol to HA yielded the highest efficiency for antibiotic extraction at pH 4–7.

In situ formation of thymol-based hydrophobic deep ...

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CONCLUSION The three solvents show good capacity to extract thymol from *T. vulgaris* and *T. zygis* by PLE. Although PLE proved to be a suitable technology to extract thymol from thyme plants, the highest concentrations of thymol were obtained by SFE with supercritical CO₂ .

**[PDF] Extraction of
thymol from**

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...Thymol From

Pressurized liquid extraction (PLE) in an ASE 350 system using the three green liquid solvents at different extraction temperatures (60 °C, 130 °C, 200 °C) was carried out employing *Thymus vulgaris* as model thyme variety. Then, the extraction of thymol from other thyme varieties (*Thymus zygis* and

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Thymus citriodorus)
was studied. Extraction
yield
Plectranthus

**EXTRACTION OF
THYMOL FROM
DIFFERENT
VARIETIES OF
THYME ...**

Thymol participates in a number of enzymatic reactions. In particular, thymol can be biosynthesized from p-cymene. Thymol can also be converted into thymol sulfate and

Read Online Optimisation Of Extraction Of thymol sulfate(1-).

Thymol is a camphor, herbal, and medicinal tasting compound that can be found in a number of food items such as black walnut, winter savory, cloves, and ...

Thymol | C₁₀H₁₄O - PubChem

In this paper multivariate response surface methodology (RSM) has been used for the optimization of

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hydrodistillation-headspace solvent microextraction (HD-HSME) of thymol and carvacrol in *Thymus transcaspicus*. Quantitative determination of compounds of interest was performed simultaneously using gas chromatography coupled with flame ionization detector (GC-FID).

Multivariate optimization of hydr

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**odistillation-
headspace ...**

In the next step, the optimal conditions were obtained by using a small-central composite design as 73.0mL for volume of extraction solvent, 1.50 (w/v%) for salt concentration, 45oC for...

(PDF) Multivariate optimization of ultrasound-assisted

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Parameters affecting the extraction efficiency were assessed and the optimized values were 5 min, 2 microL and 3 min for the extraction time, micro-drop volume and cooling time after extraction,...

Multivariate optimization of hydr odistillation-headspace ...

To reach more efficient extraction, a mixture of

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solvents composed of DMSO, methanol and water, was chosen in order to improve the efficiency of extraction. The solubility of the methanol in the fuel decreases, and the naphthalene goes into the extractant phase more easily.

Liquid-liquid Extraction of Naphthalene. Application of a ...

Title: Optimization of

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Microwave-Assisted

Extraction of Phenolic
Compounds from
Medicinal and Aromatic
Plants: Sideritis raeseri,
Sideritis scardica and
Origanum vulgare

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Engineering, Faculty of
Engineering, Aristotle
Thymol From
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**Optimization of
Microwave-Assisted
Extraction of
Phenolic ...**

The thymol-rich *L. origanoides* chemotype was used to test extraction reproducibility. The effects of pressure, temperature, time, CO₂ mass flow, particle size, and percent

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ethanol on the extraction yield of oleoresin and flavonoids were examined with a 2 (6-2) fractional factorial screening design.

Optimization of flavonoids extraction from Lippia ...

Thymol shows potential medical values and it can be extracted from plants and herbs. In

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this study, ultrasonic-assisted extraction (UAE) was used to extract thymol from *Plectranthus amboinicus* leaves.

Ultrasonic-Assisted Extraction (UAE) Process on Thymol

...

optimization study for thymol concentration found that the optimum condition was at 55°C with an extraction time of 23

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min and a solid-to-
solvent ratio of 1:35
g/mL. By using
ultrasound, the ...

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