

Estudio preliminar de metabolitos secundarios en extractos de especies del género *Piper* presentes en la Reserva Forestal Bosque de Yotoco

Preliminary Study of Secondary Metabolites in Extracts of *Piper* Species from the Yotoco Forest Reserve

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RESUMEN

Con el objetivo de tener una estimación de los metabolitos secundarios presentes en especies del género *Piper*, en este estudio se realizó un perfil fitoquímico preliminar en ocho (8) especies del género *Piper* colectadas en la Reserva Forestal Bosque de Yotoco Semillero de Investigación en Productos Bioactivos (SIBIO), Facultad de Ingeniería y Administración, Universidad Nacional de Colombia sede Palmira.

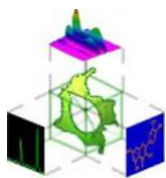
Aiming to estimate the secondary metabolites present in *Piper* species, this study conducted a preliminary phytochemical profiling of eight (8) *Piper* species collected from the Yotoco Forest Reserve ^[1]. Dried leaves of the collected species underwent ultrasound-assisted extraction (UAE). The obtained polar extracts were phytochemically characterized. Results showed that phenolic content ranged from 10.318 to 18.055 mg GAE/g DW, consistent with previously reported polyphenolic profiles in plant matrices ^[2]. For DPPH radical antioxidant capacity, values ranged from 43.431 to 142.411 μ M TE/g DW ^[2].

Las hojas secas de las especies colectadas se sometieron a extracción asistida por ultrasonido (EAU). Los extractos polares obtenidos fueron caracterizados fitoquímicamente. Los resultados mostraron que el contenido de fenoles, estuvo en un rango de 10,318 - 18,055 mgEAG/g MS. Para la capacidad antioxidante por el radical DPPH, se obtuvo un rango de 43,431 - 142,411 μ M ET/g MS.

Palabras claves:

Piper, capacidad antioxidante, contenido de fenoles, extracción asistida por ultrasonido

ABSTRACT



To estimate the secondary metabolites present in species of the *Piper* genus, this study carried out a preliminary phytochemical profiling of eight (8) *Piper* species collected from the Yotoco Forest Reserve ^[1], as part of the Research Seedbed in Bioactive Products (SIBIO), Faculty of Engineering and Administration, Universidad Nacional de Colombia, Palmira campus. Dried leaves of the collected species underwent ultrasound-assisted extraction (UAE). The obtained polar extracts were phytochemically characterized. Results showed that phenolic content ranged from 10.318 to 18.055 mg GAE/g DW, consistent with previously reported polyphenolic profiles in plant matrices ^[2]. For DPPH radical antioxidant capacity, values ranged from 43.431 to 142.411 μ M TE/g DW ^[2].

Dried leaves of the collected species underwent ultrasound-assisted extraction (UAE). The obtained polar extracts were phytochemically characterized. The results showed that the phenolic content ranged from 10.318 to 18.055 mg GAE/g DW. For antioxidant capacity by the DPPH radical, values ranged from 43.431 to 142.411 μ M TE/g DW.

Keywords:

Piper, antioxidant capacity, phenolic content, ultrasound-assisted extraction

Referencias

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