

Identification Of Lichen Substances

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It comprises methods for the isolation and identification of lichen substances by physical and spectroscopic methods, microcrystallization, thin layer chromatography, high performance liquid chromatography, gas liquid chromatography and derivatization. The main part contains the formulae, molecular weights and data about the melting points, colour reactions, UV, IR, ¹H-NMR, ¹³C-NMR and mass spectra, derivatives, TLC R_F -values, microcrystallization, HPLC and the standard lichen (which ...

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About this book. About this book. This handbook is an indispensable tool for the isolation, identification and structural analysis of the approx. 700 substances currently known to occur in lichens. The first part covers all necessary methods for the analysis of lichen metabolites; the second part gives the analytical and spectroscopical data of all known lichen substances as well as a key to their identification and differentiation.

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A method for the identification of secondary aromatic lichen substances using high-performance liquid chromatography (HPLC) with reversed-phase columns, gradient elution and benzoic and solorinic acids as standards has been developed.

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Secondary compounds of lichens: identification and uses Lichens produce an unique variety of extra cellular secondary metabolites known as lichen substances. These compounds exist within the thalli either in an amorphous form or as crystals.

~~Secondary compounds of lichens: identification and uses~~

Identification of Lichen Substances Dr. Siegfried Huneck, Professor Dr. Isao Yoshimura (auth.) This handbook is an indispensable tool for the isolation, identification and structural analysis of the approx. 700 substances currently known to occur in lichens.

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Lichen compounds have been classified and divided into the following groups by Asahina and Shibata (1971) and Dayan and Romagni (2001a): (1) aliphatic lichen substances, which mainly include acids, zeorin compounds, and polyhydric alcohols; (2) aromatic lichen substances, which mainly include pulvic acid derivatives, depsides, depsidones, quinones, xanthone derivatives, diphenyleneoxide derivatives, nitrogen-containing compounds, triterpenes, and tetrionic acids; and (3) carbohydrates or ...

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This handbook is an indispensable tool for the isolation, identification and structural analysis of the approx. 700 substances currently known to occur in lichens. The first part covers all necessary methods for the analysis of lichen metabolites; the second part gives the analytical and spectroscopical data of all known lichen substances as well as a key to their identification and differentiation.

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Most of these lichen substances act as an important character for identification of lichens (chemotaxonomy). The lichen substances are identified by performing colour spot test or thin layer chromatography (TLC) or by high performance liquid chromatography (HPLC).

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This book gives the analytical and spectroscopical data of known lichen substances as well as a key to their identification and It serves as a chemotaxonomical key to the identification of lichen species.

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Finally, a key for the identification of lichen substances is presented. The number of lichen substances with known structure is about 700. It is the aim of this book to help the lichenologist and the natural product chemist in the identification of this large group of plant metabolites.

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identification of lichen substances It comprises methods for the isolation and identification of lichen substances by physical and spectroscopic methods, microcrystallization, thin layer chromatography, high performance liquid chromatography, gas liquid chromatography and derivatization.

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