

Antioxidant activity of the essential oils of different parts of *Juniperus sabina* L. and *Juniperus foetidissima* Willd. (Cupressaceae)

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Abstract

Different parts of *Juniperus sabina* L and *J. foetidissima* Willd. essential oils were examined for a possible antioxidant activity. The essential oil compositions of these plants were found by GC and GC/MS. TLC screening methods, DPPH assay, deoxyribose degradation test as well as modified deoxyribose degradation test in three different ways were used to evaluate the antioxidant activity of the oils, pure components and positive controls at different concentrations. Evaluation of the results of the present study demonstrated some antioxidant activity for the tested essential oils obtained from various parts of both *J. sabina* and *J. foetidissima* species. It indicates that the use of these two essential oils, in very low concentrations, may be useful for preserving food materials. However before any final conclusion, it is suggested that the antioxidant activity of these oils should also be evaluated by using lipid solvent system methods. © Essential Oil Resource Consultants. All rights reserved.

Author keywords

Antioxidant activity; Cupressaceae; Deoxyribose assay; DPPH assay; Essential oil; *Juniperus foetidissima*; *Juniperus sabina*; TLC screening

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