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1. J Diet Suppl. 2019;16(4):408-416. doi: 10.1080/19390211.2018.1470126. Epub 2018 Jun 29. In Vitro Evaluation of Antioxidant Activity and Antibacterial Effects and Measurement of Total Phenolic and Flavonoid Contents of Quercus brantii L. Fruit Extract.

In Vitro Evaluation of Antioxidant Activity and ...

Conclusion: AA and its derivates presented an in vitro antioxidant activity but AA had the best antioxidant effect. In in vivo efficacy studies, only the formulation containing AA caused alterations in TEWL values and the formulation containing MAP caused alterations in the viscoelastic to elastic ratio.

In vitro antioxidant activity and in vivo efficacy of ...

As a result, there is need to explore substances with free radical scavenging and or antioxidant activity. The present study was designed to evaluate the free radical scavenging activity of ethanol extract of leaf and stem of Grewia carpinifolia using various in vitro models. Ascorbic acid was used as the reference in the study. 1,1-Diphenyl-2-picryl hydroxyl (DPPH) quenching assay, 2,2 -azinobis-3-ethylbenzothiazoline-6-sulfonic acid (ABTS) cation decolorization test, ferric reducing ...

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In vitro antioxidant activity, total phenolic and ...

The in vitro antioxidant activities were studied by determining the 1,1-diphenyl-2-picrylhydrazyl (DPPH) and the hydroxyl radicals scavenging activities, the chelating ability with Cu²⁺ ions, and the lipid peroxidation inhibitory activity in a linoleic acid emulsion system, using glutathione (GSH) as a control.

In vitro antioxidant activity and in vivo anti-fatigue ...

The antioxidant activity was assessed via established in vitro assay models such as 2,2-Diphenyl-1-Picrylhydrazyl (DPPH) radical quenching assay, reducing power assay and reactive nitrogen species (RNS) inhibitory potential.

In vitro antioxidant activity and polyphenolic content of ...

CONCLUSION: AA and its derivatives presented an in vitro antioxidant activity but AA had the best antioxidant effect. In in vivo efficacy studies, only the formulation containing AA caused alterations in TEWL values and the formulation containing MAP caused alterations in the viscoelastic-to-elastic ratio.

In vitro antioxidant activity and in vivo efficacy of ...

Antioxidant activity determined with FRAP assay during the in vitro gastric () and pancreatic phase of digestion and with ABTS assay during the in vitro gastric and pancreatic phases of digestion. Results are expressed as VCEAC/100 g of grapes. Data are means \pm SD (n = 3).

In vitro bio-accessibility and antioxidant activity of ...

In addition, methanolic extract and aqueous extract of *Dendrophthoe falcata* leaves showed potent antioxidant activity in different in-vitro models like DPPH (1, 1-diphenyl-2-picrylhydrazyl) radical scavenging, anti-lipid peroxidation and nitric oxide scavenging activity, having IC₅₀ values 77.8, 79.36 and 86.2, 144, 87, 104 mcg respectively.

Evaluation of Anti-Inflammatory Activity and In-vitro ...

Number of studies has reported on the antioxidant capacity of foods and a significant in vitro antioxidant activity of fruit juices (Gil et al., 2000, Sluis et al., 2000). Recently, the study of antioxidant activity of orange juices through the scavenging of the DPPH radical was reported (Miller et al., 2000, Sluis et al., 2000). The antioxidant capacities of limonin and nomilin in the four tissues of mature fruit were determined by β -carotene bleaching assay.

In vitro evaluation of the antioxidant activities in fruit ...

In vitro antioxidant activity The free radical scavenging activity of the methanolic leaf and root extracts of the study species, *H. radicata* was determined by using various in vitro assays such as DPPH assay, reducing power assay and ABTS assay and ferrous ion chelating activity. Free radical scavenging activity (DPPH)

Screening of in vitro antioxidant activity of methanolic ...

Antioxidant activity is calculated as percentage of inhibition (I%) relative to the control using the following equation: $I\% = [1 - (A_s - A_{s120}) / (A_c - A_{c120})]$ where A_s was initial absorbance, A_{s120} was the absorbance of the sample at 120 min, A_c was initial absorbance of negative control and A_{c120} was the absorbance of the negative control at 120 min. 3.18.

Review on in vivo and in vitro methods evaluation of ...

The in vitro antioxidant activity assay suggested that MEs presented a higher capacity for

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maintaining the antioxidant activity of KDP. ME-based systems may be a promising platform for the topical application of KDP in the treatment of skin disorders. 1.

Structural Characterization and In Vitro Antioxidant ...

The objective of the study was to evaluate the in vitro antioxidant activities of *Clitoria ternatea*. Various concentrations (250, 500, 750 and 1000 µg) of the methanol extract of *Clitoria ternatea* ...

(PDF) In vitro antioxidant activity of *Clitoria ternatea* Linn

Hydroxyl radical scavenging capacity of an extract is directly related to its antioxidant activity. This method involves in vitro generation of hydroxyl radicals using Fe³⁺/ascorbate/EDTA/H₂O₂ system by Fenton reaction. The hydroxyl radicals formed by the oxidation are made to react with DMSO (dimethyl sulphoxide) to yield formaldehyde.

In Vitro Antioxidant and Anticancer Activity Studies on ...

The total antioxidant activity of test extracts was evaluated by green phosphomolybdenum complex according to the method of Prieto et al.. An aliquot of 10 µL of extracts was mixed with 1 mL of reagent solution (0.6 M sulphuric acid, 28 mM sodium phosphate, and 4 mM ammonium molybdate) in Eppendorf tubes.

In Vitro Antioxidant, Antiproliferative, and Phytochemical ...

Additionally, in vitro methods (phenolics and antioxidant activity) are valuable tools to estimate the impact of conventional and non-conventional processing are used to avoid lipid oxidation processes or to extract more antioxidant compounds from raw materials (Touati et al., 2016, Carbonell-Capella et al., 2016, Zou and Hou, 2017, Hashemi et al., 2018).

Antioxidant activity, total phenolics and flavonoids ...

As per this review there are 19 in vitro methods and 10 in vivo methods that are being used for the evaluation of antioxidant activity of the sample of interest. DPPH method was found to be used mostly for the in vitro antioxidant activity evaluation purpose while LPO was found as mostly used in vivo antioxidant assay.

Review on in vivo and in vitro methods evaluation of ...

The results showed that bioflavonoids had in vitro antioxidant properties and also that when they were associated with vitamins their antioxidant activity was more pronounced. On the other hand, erythema and UV damage to the permeability barrier function (TEWL) was not significantly reduced by previous treatment with the flavonoid-vitamin-association formulations, when compared to the ...

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