

Antioxidant Capacity Of Manilkara Zapota L Leaves

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Comparative antioxidant effect of BHT and water extracts ...
The standard curve was linear between 0–15 μ M Trolox (final concentration) and 0–20 mg of ascorbic acid/100 mL. The results were expressed as TEAC (Trolox Equivalent Antioxidant Capacity) and VCEAC (Vitamin C Equivalent Antioxidant Capacity) values, the latter is more suitable for food.

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its great antioxidant capacity, for the contribution of L-ascorbic acid to sapodilla total antioxidant capacity is insignificant (<0.1%), due to its low levels (12 mg.100 g⁻¹) (Leong and Shui, 2002).

(PDF) Antioxidant capacity of Manilkara zapota L. leaves ...
Keywords: Antioxidant activity, Phytochemical, Manilkara zapota, Cytotoxicity INTRODUCTION Skin is the largest and the most important organ as protective barrier form oxidative injury caused by free radical. Free radical such as reactive oxygen species (ROS) is very harmful which are produced by condition of sun exposure,

Antioxidant Capacity Of Manilkara Zapota
The antioxidant capacity of the Manilkara zapota L. leaves extracts, obtained by sequential extraction with different polarities of solvents, was evaluated by four different in vitro methods: DPPH, superoxide and hydroxyl radical scavenging activity and reducing capacity assessment assay.

(PDF) Antioxidant and antimicrobial activity of sapodilla ...
Hyperpigmentation is considered by many to be a beauty problem and is responsible for photoaging. To treat this skin condition, medicinal cosmetics containing tyrosinase inhibitors are used, resulting in skin whitening. In this study, taraxerol methyl ether (1), spinasterol (2), 6-hydroxyflavanone (3), (+)-dihydrokaempferol (4), 3,4-dihydroxybenzoic acid (5), taraxerol (6), taraxerone (7), and ...

Antioxidant and Antibacterial Properties of Manilkara ...
Determination of antioxidant Activity. . 1.0ml of the different concentration of various extracts of the sample was mixed with 2.5ml potassium ferric cyanide and 2.5ml phosphate buffer (pH 6.6). The mixture was incubated at 50°C for 20 minutes.

Quantification of phenolic compounds and antioxidant ...
Chanda and Nagani studied the antioxidant capacity of the Manilkara zapota L. leaves extracts, and observed that the acetone extract showed best DPPH radical scavenging activity. The high antioxidant capacity observed for acetone extract suggested that this plant could be used as an additive in the food industry providing good protection against oxidative damage.

Comparative antioxidant effect of BHT and water extracts ...
Abstract: The antioxidant capacity of the Manilkara zapota L. leaves extracts, obtained by sequential extraction with different polarities of solvents, was evaluated by four different in vitro methods: DPPH, superoxide and hydroxyl radical scavenging activity and reducing capacity assessment assay.

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Antioxidant and antimicrobial activity of sapodilla (Manilkara zapota L.) fresh, juice and bar Article (PDF Available) in Food Research 3(5):400–406 · February 2019 with 139 Reads

Phytochemical and Antioxidant Properties of Manilkara ...
Our previous research has indicated that unripe ciku fruits (Manilkara zapota L.) are an excellent source of antioxidants, with over 3000 mg of l-ascorbic acid equivalent antioxidant capacity (AEAC) per 100 g of fresh sample. In this study, 24 antioxidants in an extract of ciku king were characterized

through a free radical spiking test.

A comparative study of antimicrobial potential and ...
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Antioxidant, anti-collagenase and anti-elastase activities ...
In the present study, the leaves of *Manilkara zapota* (L.) P. Royen (Sapotaceae), an evergreen tree recognized for its medicinal properties in Southern Mexico, were used as a model to study the effect of different drying temperatures on its metabolic profile and therefore, its antioxidant potential. For this purpose, a methanol extraction of leaves dried at room temperature (25 °C) or by ...

(PDF) Antioxidant Capacity of *Manilkara zapota* L. Leaves ...
This is the first report about isolation of these compounds from *Manilkara zapota* except myricetin-3-O-β-D-rhamnoside, which was previously isolated from the plant growing abroad. The LD 50 recorded 80 g/Kg b. wt. for both the tested extracts, so they could be considered to be safe.

Manilkara zapota - Wikipedia
On the other hand, by using the ABTS decolourisation assay, we have measured the antioxidant capacity and found 697.14 mg TE/100 g fw in fruit sample. Reddy et al. extracted *M. zapota* fruit in 60% methanol containing 0.1% HCl and showed 141 mg TE/100 g of DPPH RSA and 55 mg TE/100 g ABTS RSA.

Chemical and biological study of *Manilkara zapota* (L.) Van ...
Manilkara zapota, commonly known as sapodilla (/ ? s æ p ? ? d ? l ? /), sapota, chikoo, naseberry, or nispero is a long-lived, evergreen tree native to southern Mexico, Central America and the Caribbean. An example natural occurrence is in coastal Yucatán in the Petenes mangroves ecoregion, where it is a subdominant plant species.

Changes in postharvest quality and antioxidant metabolism ...
Chanda SV, Nagani KV (2010) Antioxidant capacity of *Manilkara zapota* leaves extracts evaluated by four invitro methods. *Nature and Science* 8:260-266 Google Scholar Devatkal SK, Narsaiah K, Borah A (2011) The effect of salt, extract of kinnow and pomegranate fruit by-products on colour and oxidative stability of raw chicken patties during ...

Characterization of Antioxidants and Change of Antioxidant ...
In addition, *Manilkara zapota* leaf juice was able to reduce the levels of glycemia, insulin, leptin, cholesterol, and triglycerides in wistar rats. Moreover, previous data indicated the antioxidant function of *Manilkara zapota* from polyphenolics, especially gallocatechin or catechin [36], and also neo-bioactive polyphenols

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Antioxidant, anti-collagenase and anti-elastase activities of *Phyllanthus emblica*, *Manilkara zapota* and silymarin: an in vitro comparative study for anti-aging applications Sirinya Pientaweeratch, Vipaporn Panapisal and Anyarporn Tansirikongkol ... The antioxidant capacity was evaluated by DPPH and ABTS assays. The effects of

Anti-oxidant and Anti-inflammatory Activities of *Manilkara* ...
extracts of *Manilkara zapota* can be considered as an interesting and economic source of natural antioxidant and antibacterial agent for utilization in nutraceutical and pharmaceutical industries. Keywords: *Manilkara zapota*, Flower extract, Agar well diffusion, DPPH radical, Oxidative stress, Phytochemicals,

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