

## Phytochemical Analysis Of Xylopia Aethiopica

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### Phytochemical Analysis Of Xylopia Aethiopica

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### Phytochemical Analysis Of Xylopia Aethiopica

The proximate analysis result showed Xylopia aethiopica fruit contain 38.72 ± 0.61% fiber, 26.08 ± 1.41% carbohydrates, 18.47 ± 0.05% protein, 6.73 ± 0.01% lipid, 6.02 ± 0.84% moisture, and 4 ...

### (PDF) Phytochemical screening of Xylopia aethiopica with ...

X. aethiopica has been found to contain some phytochemicals which exhibit a wide range of biological effects as a consequence of their antioxidant properties (Fleischer, 2003; Keita et al., 2003). The chemical components of X. aethiopica have been helpful in the avoidance and treatment of cancerous tumors.

### Phytochemical screening of Xylopia aethiopica with ...

Spectrophotometric analysis for trace metals (such as Mg, Zn, Cu, Ni and Fe), Phosphorus and Sulphur showed that X. aethiopica contained Mg(0.370+0.002 mg/100g), Zn (1.020+0.001 mg/100g), Cu (0.274+0.004 mg/100g), Ni (1.099+0.001 mg/100g), Fe (0.690+0.002 mg/100g), P (30.62+0.02 mg/100g) and S (100.50+0.51 mg/100g).

### [PDF] Phytochemical and antimicrobial studies of extract ...

The phytochemical analysis showed that the sample contained tannins (4.96%), flavonoids (0.81%), saponins (2.93%) and alkaloids (1.24%). The proximate analysis of the nutrient composition of powdered Xylopia aethiopica sample showed the presence of moisture, lipid, crude fibre, crude protein, ash and nitrogen free extracts in the following proportion 6.32, 12.54, 14.51, 0.91, 2.31 and 63.41% respectively.

### Phytochemical, Nutrient Composition and Serum Lipid ...

Phytochemical analysis an d in vitro anthelmintic potentials of Xylopia aethiopica (Dunal), a rich (Annonacea) from Nigeria. Ekeanyanwu and Tienajirhevwe (2012) 15 investigated the phytochemical ...

### (PDF) Xylopia Aethiopica: A Review of its Ethnomedicinal ...

The quantitative phytochemical analysis of the seeds of xylopia aethiopica were shown in table1.The result revealed the presence of flavonoids phenolics, tannins, alkaloids, saponins, cardiac glycosides and steroids of Xylopia aethiopica . These phytochemical constituents may be responsible for the activity of the seed extracts of

### Synergistic Effect of Xylopia Aethiopica Seed Extract and ...

The phytochemical constituents were screened by GC-MS method and the compound detection employed the NIST Ver. 2.0 year 2005 library. The results of the GC-MS analysis showed different peaks determining the presence of 15 phytochemical compounds in the fruit extract of A. aetiopica.

### GC-MS/FT-IR screening of Xylopia aethiopica (Dunal) A ...

The preliminary screening of phytochemical constituents of the fruits of Xylopia aethiopica showed the presence of cardiac glycosides flavonoids, phlobatannins, tannins, phenol, anthraquinones, saponin and steroids. The ethanol extract was active against P. aeruginosa, B. subtilis, S. aureus, but showed no activity against K.

### Antimicrobial Activity of Fruit Extracts of Xylopia ...

Phytochemical studies revealed the presence of amino acids phenylalanine, tyrosine, Arginine, glutamic acid, and asparagine which were responsible for anti sickling property, this plant has showed best example of neutraceutical as anti sickling agent 39.

### A REVIEW ON PHYTOCHEMICAL AND PHARMACOLOGICAL RESEARCH ...

The analytical strategy adopted showed the spatial distribution of the compounds in the fruits of X. aethiopica based on the dominant ions at m/z 301.2163 [M + H - HOCOCH 3] + and m/z 399.1932 [M + K] + for xylopic acid, m/z 317.2111 [M + H] + and m/z 355.1670 [M + K] + for 15-oxo- ent -kaur-16-en-19-oic acid and m/z 303.2319 [M + H] + for ent -kaur-16-en-19-oic acid.

### MALDI-HRMS imaging and HPLC-HRESI-MSn characterisation of ...

Phytochemical analysis of mite-infested tea leaves of Darjeeling Hills, India ... MALDI-HRMS imaging and HPLC-HRESI-MS n characterisation of kaurane diterpenes in the fruits of Xylopia aethiopica (Dunal) A. Rich (Annonaceae ... seed and pericarp of X. aethiopica was revealed using MALDI-MS imaging techniques. The compounds were ...

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Phytochemical screening analysis shows that ethanolic extract contains higher levels than the water extract of the extract (Table 2) while quantification of flavonoids shows 8.10±0.1 %. Flavonoids strengthen the blood capillaries and prevent the small cutaneous haemorrhage so frequent in the aged.

### Chemical profiling of African guinea pepper friut Xylopia ...

fruit of Xylopia aethiopica (Dunal) a. rich using gas chromatography and high-performance liquid chromatography techniques Oso BJ, Boligon AA and Oladiji AT Abstract The study was aimed at identifying the phytochemicals present in the ethanolic extracts of the dried fruit of Xylopia aethiopica by GC-MS and HPLC-DAD analyses. A total of 39, 38 and 35 compounds were

### E-ISSN: P-ISSN: Metabolomic profiling of ethanolic ...

Abstract Aside from its multiple medicinal uses, the fruit of Xylopia aethiopica is widely used in Africa as food. Herein, we characterize the protein profiles, mineral content and bioactive phytochemical composition of the seeds of this plant sourced in Ghana and Nigeria.

### Molecules | Free Full-Text | Xylopia aethiopica Seeds from ...

A correlation analysis between the phytochemical content (flavonoids and total phenolics) and antioxidant activities (DPPH and β-carotene-linoleic acid) revealed insignificant but mostly weak negative correlations (p > 0.05), with coefficient (r) values of between −0.464 to 0.036. However, although insignificant, the negative correlations, in the context of antioxidant activities, indicate some appreciable degree of correlation between high phenolic levels and good antioxidant activities.

### Antioxidant, Antimicrobial and Phytochemical Variations in ...

The simple chromatogram of the volatile oil of Xylopia aethiopica gave an indication of the presence of numerous terpenoids compounds in it, however upon application of aroma extract dilution analysis on the sample it became clear that several of these compounds have little or no contribution to the overall odor quality of the fruit volatiles.

### Identification of the Key Aroma Compounds in Dried Fruits ...

The extracts of driedXylopia aethiopica fruit were found to inhibit human cervical cancer cell lines C33A, inducing apoptosis and cell cycle arrest in C33A cells in a dose dependency. Adaramoye et al. study the effect of dried fruit extracts protection on Wistar albino rats from adverse effect of whole body radiation.