

Major, Minor and Trace Element Analysis of Baobab Fruit and Seed by Instrumental Neutron Activation Analysis Technique

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ABSTRACT

Mineral element compositions of Baobab fruit and seed have been determined using Instrumental Neutron Activation Analysis. Total of 18 mineral elements were determined of which 10 are not normally reported using other methods. The concentrations of heavy metals were: Arsenic < 0.06 and < 0.04, Mercury < 0.04 and < 0.04 Hg and Cadmium < 0.08 and < 0.04 respectively for the seeds and the fruit. The average concentration of trace elements in the seed were: Aluminium (11.50 µg/g), Barium (17.3 µg/g), Bromine (2.45 µg/g), Cobalt (0.07 µg/g), Copper (28.6 µg/g), Iron (<42 µg/g), Iodine (<0.04 µg/g), Manganese (17.7 µg/g), Sodium (23.53 µg/g), Vanadium (0.035 µg/g), and Zinc (12.06 µg/g), while the average concentrations of Aluminium (27.74 µg/g), Barium (13.10 µg/g), Bromine (3.01 µg/g), Cobalt (0.08 µg/g), Copper (14.9 µg/g), Iron (26.05 µg/g), Iodine (0.27 µg/g), Manganese (7.05 µg/g), Sodium (52.06 µg/g), Vanadium (0.08 µg/g), and Zinc (0.79 µg/g) were determined for the dried fruit pulp. The mineral concentrations of the baobab fruit and seed were characterized with high concentration of potassium, calcium, magnesium and substantive amount of chlorine [K (21350 µg/g), Ca (3170 µg/g), Mg (2310 µg/g) and Cl (211 µg/g), for the fruit pulp and K (12240 µg/g), Ca (2360 µg/g), Mg (4720 µg/g) and Cl (88.6 µg/g), for the seed]. The fruits and seeds present useful source of mineral needs for the indigenous African community where the trees are found and may be recommended as food supplement due to high content of calcium, magnesium and potassium.

Keywords: Heavy Metals; Baobab; INAA; Potassium; Calcium; Magnesium

1. Introduction

Sidibe and Williams [1] indicated that, the African baobab and its related species belong to the family Bombacaceae and the genus *Adansonia* and that baobab is generally regarded as fruit-bearing forest tree. The physical description of the baobab tree is mostly characterized by its massive size, reaching to a height of about 18 - 25 m and producing a rounded crown and showing a stiff branching habit. The trunk is swollen and stout, up to 10 m in diameter. The Baobab trees are generally reported to be found in countries of Southern Africa, such as Botswana, Mozambique, Namibia, South Africa and Zimbabwe [2] and other African countries including Ghana. In Ghana the distributions of Baobab trees in Sakpuli; Northern region of Ghana were described as form-

ing an outstanding floral feature of the landscape of Sakpuli by [3] in his Archeological studies of the area. The studies further enumerated a number of uses for all parts of the baobab tree; while the powder from the dried fruit is either eaten raw or prepared into porridge to be serve as breakfast, the seed is fried and grounded into powder and used in preparing soup (just as ground nuts). The root and the bark are used for medicinal purposes including chest diseases. Other literatures [4-6] have reported on the native usage and application of baobab as food and medicine; the Baobab fruit pulps in a form of powder are dissolved in water in order to prepare drinks. For most traditional medicinal applications, the Baobab fruit drink is generally recommended for pregnant women and in some instances used in preparation of

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Table of Contents Major Minor And Trace Element Analysis Of Baobab Fruit

1. Understanding the eBook Major Minor And Trace Element Analysis Of Baobab Fruit
 - The Rise of Digital Reading Major Minor And Trace Element Analysis Of Baobab Fruit
 - Advantages of eBooks Over Traditional Books
2. Identifying Major Minor And Trace Element Analysis Of Baobab Fruit
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Major Minor And Trace Element Analysis Of Baobab Fruit
 - User-Friendly Interface
4. Exploring eBook Recommendations from Major Minor And Trace Element Analysis Of Baobab Fruit
 - Personalized Recommendations
 - Major Minor And Trace Element Analysis Of Baobab Fruit User Reviews and Ratings
 - Major Minor And Trace Element Analysis Of Baobab Fruit and Bestseller Lists
5. Accessing Major Minor And Trace Element Analysis Of Baobab Fruit Free and Paid eBooks
 - Major Minor And Trace Element Analysis Of Baobab Fruit Public Domain eBooks
 - Major Minor And Trace Element Analysis Of Baobab Fruit eBook Subscription Services

- Major Minor And Trace Element Analysis Of Baobab Fruit Budget-Friendly Options
- 6. Navigating Major Minor And Trace Element Analysis Of Baobab Fruit eBook Formats
 - ePub, PDF, MOBI, and More
 - Major Minor And Trace Element Analysis Of Baobab Fruit Compatibility with Devices
 - Major Minor And Trace Element Analysis Of Baobab Fruit Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Major Minor And Trace Element Analysis Of Baobab Fruit
 - Highlighting and Note-Taking Major Minor And Trace Element Analysis Of Baobab Fruit
 - Interactive Elements Major Minor And Trace Element Analysis Of Baobab Fruit
- 8. Staying Engaged with Major Minor And Trace Element Analysis Of Baobab Fruit
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Major Minor And Trace Element Analysis Of Baobab Fruit
- 9. Balancing eBooks and Physical Books Major Minor And Trace Element Analysis Of Baobab Fruit
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Major Minor And Trace Element Analysis Of Baobab Fruit
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Major Minor And Trace Element Analysis Of Baobab Fruit
 - Setting Reading Goals Major Minor And Trace Element Analysis Of Baobab Fruit
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Major Minor And Trace Element Analysis Of Baobab Fruit
 - Fact-Checking eBook Content of Major Minor And Trace Element Analysis Of Baobab Fruit
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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