

## Potential Use of Mango Leaves Extracts Obtained by High Pressure Technologies in Cosmetic, Pharmaceutics and Food Industries

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The greater consciousness awakened in recent years on healthy and organic has led to increase "natural" products demand worldwide. The quality and high content on bioactive compounds have consolidated their penetration in cosmetic and food market, showing great potential within the pharmaceutical sector too. For this reason, food, cosmetic and pharmaceutical sectors have been forced to develop natural products manufactured by efficient and environmentally clean process. Mango leaves extract have showed potential use in food and cosmetic, and pharmaceutical industries due to its high content in potent antioxidant phenolic compounds. The aim of this work was analyse the valorization of pruning mango residues into valuable chemical products by high pressure extraction techniques. An economic feasibility study was realized including industrial scale up, manufacturing costs and financial study, showing the viability of mango leaves extraction by high pressure technologies at industrial scale and the applications of extracts in food, pharmaceutical and cosmetic industries.

### 1. Introduction

In recent years, pharmaceutical, cosmetic and food industries have shown a growing interest in the use of natural antioxidants (non-synthetic origin) obtained from sources like plants, microalgae and microorganism. Mango (*Mangifera indica* L.) leaves are a rich source of phenolic compounds with strong antioxidant power, particularly mangiferin, a special xanthone commonly called as "super-antioxidant" because of their potent antioxidant capacity, and other phenolic compounds like quercetin, widely studied by its pharmacological properties (Massibo et al., 2008).

Thanks to its "super-antioxidant properties", mango leaves extract can be used as natural preservatives in food applications (Morsli et al., 2010) and as anti-aging compound in cosmetic products (Charrier et al., 2006). Also, mango leaves extracts present potential use in pharmaceutical applications as chemopreventive agent of diseases relates with oxidative stress giving their numerous antioxidant and health-promoting properties scientifically demonstrated (Mohan et al., 2013).

The recovery of bioactive compounds from plants is frequently realized by conventional extractions methods. However, in the last decades, food, cosmetic and pharmaceutical industries have increased their safety requirements to protect the health of consumers and the environment, requiring more efficient and greener processes (Straccia et al., 2013). This work, evaluated a more effective and environmentally friendly extraction technique based on high pressure extraction techniques which present many advantages over conventional processes (Fernández-Ponce et al., 2012).

The present study shows important aspects related to the production of mango leaves extracts by high-pressure extraction techniques: global extraction yield, phenolic content and antioxidant activity of the extract. In addition, an economic feasibility study at industrial scale including scale up is realized. The cost of manufacturing (COM), demand of natural extracts and financial analysis, in order to know the viability of

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### **Table of Contents Potential Use Of Mango Leaves Extracts Obtained By High**

1. Understanding the eBook Potential Use Of Mango Leaves Extracts Obtained By High
  - The Rise of Digital Reading Potential Use Of Mango Leaves Extracts Obtained By High
  - Advantages of eBooks Over Traditional Books
2. Identifying Potential Use Of Mango Leaves Extracts Obtained By High
  - 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 Potential Use Of Mango Leaves Extracts Obtained By High
  - User-Friendly Interface
4. Exploring eBook Recommendations from Potential Use Of Mango Leaves Extracts Obtained By High
  - Personalized Recommendations

- Potential Use Of Mango Leaves Extracts Obtained By High User Reviews and Ratings
- Potential Use Of Mango Leaves Extracts Obtained By High and Bestseller Lists
- 5. Accessing Potential Use Of Mango Leaves Extracts Obtained By High Free and Paid eBooks
  - Potential Use Of Mango Leaves Extracts Obtained By High Public Domain eBooks
  - Potential Use Of Mango Leaves Extracts Obtained By High eBook Subscription Services
  - Potential Use Of Mango Leaves Extracts Obtained By High Budget-Friendly Options
- 6. Navigating Potential Use Of Mango Leaves Extracts Obtained By High eBook Formats
  - ePub, PDF, MOBI, and More
  - Potential Use Of Mango Leaves Extracts Obtained By High Compatibility with Devices
  - Potential Use Of Mango Leaves Extracts Obtained By High Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Potential Use Of Mango Leaves Extracts Obtained By High
  - Highlighting and Note-Taking Potential Use Of Mango Leaves Extracts Obtained By High
  - Interactive Elements Potential Use Of Mango Leaves Extracts Obtained By High
- 8. Staying Engaged with Potential Use Of Mango Leaves Extracts Obtained By High
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Potential Use Of Mango Leaves Extracts Obtained By High
- 9. Balancing eBooks and Physical Books Potential Use Of Mango Leaves Extracts Obtained By High
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Potential Use Of Mango Leaves Extracts Obtained By High
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Potential Use Of Mango Leaves Extracts Obtained By High
  - Setting Reading Goals Potential Use Of Mango Leaves Extracts Obtained By High
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Potential Use Of Mango Leaves Extracts Obtained By High
  - Fact-Checking eBook Content of Potential Use Of Mango Leaves Extracts Obtained By High

- 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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