

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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