

## **Title: Psoriasis cream from Liberia coffee peel extract**

### **Introduction:**

Psoriasis is a chronic skin condition that affects millions of people worldwide, causing red, itchy, and scaly patches on the skin. While various treatments exist, researchers and skincare experts are constantly seeking innovative solutions to alleviate the symptoms and improve the quality of life for psoriasis patients. In recent years, a groundbreaking innovation has emerged in the form of a psoriasis cream derived from coffee husk, offering promising results in combating this persistent skin condition.

### **Coffee Husk as a Natural Resource:**

Coffee husk refers to the protective layer surrounding coffee beans, which is usually discarded as waste during coffee processing. However, recent studies have revealed the untapped potential of coffee husk as a rich source of bioactive compounds and antioxidants. This sustainable and eco-friendly approach transforms coffee husk from a mere byproduct into a valuable resource for various industries, including skincare.

### **The Science behind the Psoriasis Cream:**

The development of a psoriasis cream from coffee husk involves a series of innovative processes. Initially, the coffee husks are carefully selected and undergo thorough cleaning and drying to remove any impurities. Once purified, the husks are ground into a fine powder, increasing their surface area and facilitating the extraction of bioactive compounds. The next step involves extracting the desired compounds from the coffee husk powder. This is achieved through solvent extraction, using environmentally friendly solvents such as ethanol. This process ensures that the bioactive compounds, including polyphenols, chlorogenic acid, and caffeine, are efficiently extracted while maintaining their integrity and potency.

### **Formulation and Benefits:**

The extracted coffee husk compounds are then incorporated into a specialized cream formulation designed specifically for psoriasis treatment. The cream acts as a carrier, delivering bioactive compounds to the affected skin areas. The innovative combination of coffee husk-derived compounds and other carefully selected ingredients enhances the cream's effectiveness in managing psoriasis symptoms.

### **Animal studies and Efficacy:**

Animal studies have been conducted to evaluate the efficacy and safety of the coffee husk-derived psoriasis cream. These trials involve Sprague Dawley rats with different degrees of psoriasis severity. The results have been encouraging, with significant improvements observed in the reduction of redness, scaling, and itching associated with psoriasis lesions.

### **Sustainability and Future Outlook:**

The use of coffee husk as a raw material for psoriasis cream aligns with the growing demand for sustainable and environmentally friendly skincare solutions. By repurposing a waste product, this innovation minimizes waste generation and promotes a circular economy model within the coffee industry.

Looking ahead, ongoing research and development in this field aim to further enhance the cream's formulation and explore additional bioactive compounds present in coffee husk. The development of complementary products, such as cleansers and moisturizers, is also being explored to create a comprehensive skincare regimen for psoriasis patients.

**Conclusion:**

The innovation of a psoriasis cream derived from coffee husk represents a significant breakthrough in the treatment of this chronic skin condition. By harnessing the potent bioactive compounds present in coffee husk