

BIOESST OLEATE: HIGHLY POTENT TYROSINASE INHIBITOR TO TREAT HYPERPIGMENTATION DISEASE

PATENT NO. PI2012700896



FEEDBACK FROM CONSUMERS

TECHNOLOGY

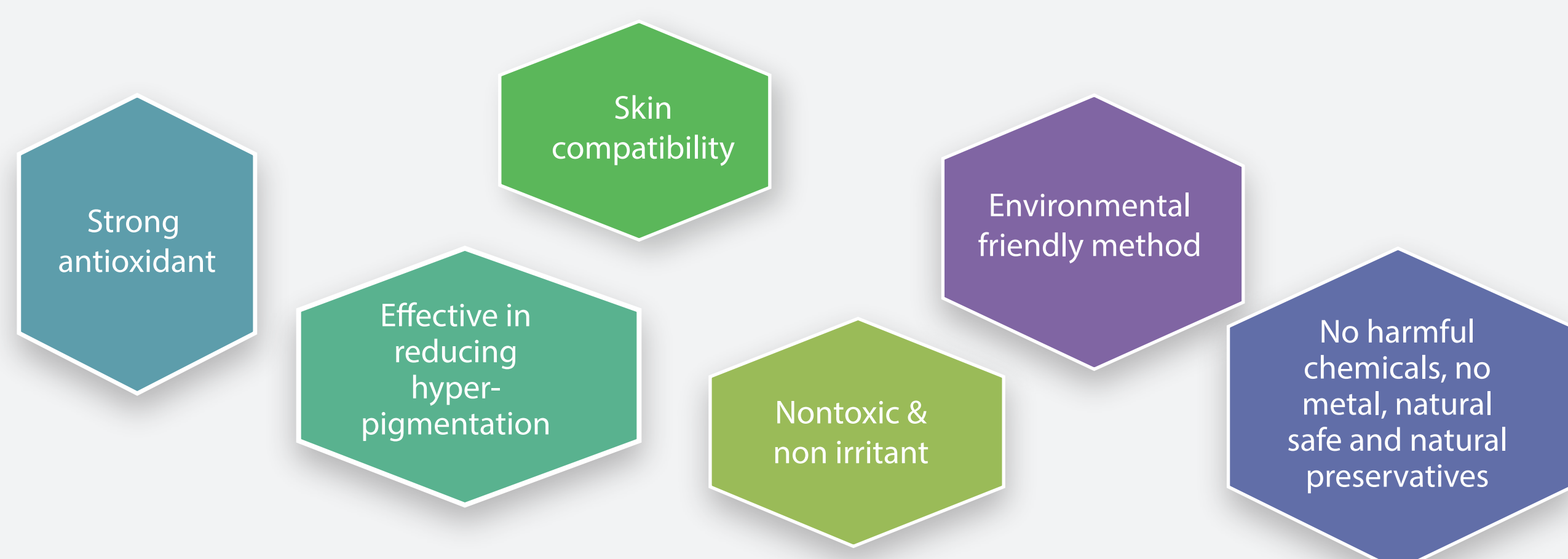
This invention aims to develop a natural, safe, less toxic, and efficient anti-tyrosinase agent formulation for the prevention of browning and skin hyperpigmentation therapy. BioEsst OLEATE is authenticated as a potential anti-tyrosinase superior than other active ingredients. An ideal solution with a novel approach of delivering BioEsst OLEATE using nanoemulsion system was developed to provide greater absorption. Hence, the application of polymeric micelles as a carrier system was feasible to boost the successful delivery of BioEsst OLEATE into the skin.

CURRENT ISSUES

Nowadays, the production of cosmeceutical products has become advances, commercialized, and highly profitable. Anti-tyrosinase-enriched cosmeceutical has emerged as a core key product towards a healthy and youthful appearance in the cosmeceuticals industry.

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INVENTIVENESS & NOVELTY



USEFULNESS & APPLICATION

The use of BioEsst OLEATE in cosmeceutical industry has many advantages such as;

- Simple, cost-efficient, and solventless method compared to a tedious multi-step conventional method.
- Enhanced the therapeutic efficacy of the active and minimize adverse effect and toxic reactions.
- Polymeric micelles system enhances the permeability of the skin barrier and reduce skin irritancy.
- Possess high antioxidant and anti-inflammatory properties.

IMPACT OF THE PRODUCT

- Our BioEsst OLEATE encapsulated with nanoemulsion system has low toxicity effect thus may contribute to the safety awareness among the consumers or end users.
- Our findings were notified by the National Pharmaceutical Regulatory Agency (NPRA) as a safe and free from any harmful substances and therefore will give better insight in the level of awareness and knowledge among Malaysian or industry player in relation with skin disease practices.

MARKET POTENTIAL

OLEate (raw) is suitable for B2B market:

- Cosmeceutical industry
- Food industry
- Pharmaceutical industry

BioEsst Serum formulation is suitable for B2C market:

- Skin pigmentation inhibitor product

TRL : 7 – Demonstration of Prototype



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