

Specification : Volatile oil loaded nanovesicular suspension/

สารแขวนตะกอนน้ำมันหอมระเหยเก็บกักในอนุภาคขนาดนาโน

(Manose RM-0031)

(Application : An active ingredient for anti-acne cosmetics and anti-cancer

food supplements / สารสำคัญในผลิตภัณฑ์เครื่องสำอางรักษาสิว

และผลิตภัณฑ์เสริมอาหารต้านมะเร็ง)

1. Name of the raw material : Volatile oil loaded in nanovesicular suspension material
2. Active components : Volatile oil such as holy basil oil 0.5% (eugenol)⁽¹⁾, etc.
3. Common and scientific name/ Family of the plant : Containing holy basil (*Ocimum sanctum* L.) oil/ LABIATAE etc.
4. Physical appearance : Turbid light yellowish suspension with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using eugenol as a marker
7. Solubility : Soluble in ethanol
8. Microbial contamination : No pathogenic microorganism with less than 1,000 cfu/g of the total plate count of bacteria, yeast and fungi which is conformed to the Thai FDA regulation
9. Biological activities : Anti-bacterial⁽²⁾, anti-oxidant⁽³⁾ and anti-cancer⁽⁴⁾
10. Animal / human performance test : Anti-cancer in animals⁽⁴⁾ and anti-bacterial (*Propionibacterium acne*) in human volunteers⁽⁵⁾
11. Safety : No skin irritation in human volunteers

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ผู้นำระดับนานาชาติในการวิจัยและพัฒนาผลิตภัณฑ์ธรรมชาติ

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12. **Pharmaceutical, food supplement or cosmetic applications** : Anti-acne cosmetic and anti-cancer food supplement products
13. **Recommended concentrations in the product** : 1-5 % w/w
14. **Storage** : Keep in tight and light protection container at room temperature
15. **Precautions** : None
16. **Cost per kg** : Please request

References

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3. Kath RK, Gupta RK. (2006) Antioxidant activity oh hydroalcoholic leaf extracts of *Ocimum sanctum* in animal models of peptic ulcer. **Indian Journal of Physiology and Pharmacology**. 50: 391-396
4. Serrame E, Lim-Sylianco CY. (1995) Anti-tumor promoting activity of decoction and expressed juice from Philippine medicinal plants. **The Philippine Journal of Science**. 124: 275-281
5. Sawarkar HA, Khadabadi SS, Mankar DM, Farooqui IA, Jagtap NS. (2010) Development and biological evaluation of herbal anti-acne gel. **International Journal of PharmTech Research**. 2(3): 2028-2031