

Specification : Betel Pepper Leaf Extract 0.1 % in Propylene Glycol/

สารสกัดใบพลู 0.1 % ใน Propylene Glycol (Manose RM-0079)

(Application : An active ingredient for anti-aging cosmetic products/ anti-bacterial and anti-fungal topical products

สารสำคัญในผลิตภัณฑ์เครื่องสำอางชะลอวัย/ ผลิตภัณฑ์ทาภายนอกยับยั้งเชื้อแบคทีเรียและเชื้อรา)

1. Name of the raw material : Betel Pepper Leaf Extract 0.1 % in Propylene Glycol
2. Active components : Flavonoids, tannin, alkaloids and essential oils^(1, 2)
3. Common and scientific name/ Family of the plant : *Piper betle* L./ PIPERACEAE
4. Physical appearance : Clear light brown liquid with specific light herbal odor⁽³⁾
5. pH : 5⁽³⁾
6. Standardization : HPLC fingerprint using quercetin as a marker⁽⁴⁾
7. Solubility : Soluble in water and ethanol⁽³⁾
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⁽³⁾
9. Biological activities : Anti-bacterial, anti-fungal, anti-cancer and anti-oxidative activities⁽⁵⁻⁸⁾
10. Animal / human performance test : Anti-bacterial in human volunteers⁽⁹⁾
11. Safety : No skin irritation in human volunteers⁽³⁾ / LD₅₀ >5 g/kg BW in rats⁽³⁾

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12. Pharmaceutical, food supplement or cosmetic applications : Anti-aging cosmetic products/ anti-bacterial and anti-fungal topical products
 13. Recommended concentrations in the product : 1 – 10 % in cosmetic and topical products⁽³⁾
 14. Storage : Keep in tight and light protection container at room temperature
 15. Precautions : -
 16. Cost per kg : Please request

References

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