

Specification : Cinnamon Bark Extract / สารสกัดเปลือกอบเชย
(Manose RM-0061)

(Application : An active ingredient for anti-acne cosmetics /
สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านสิว)

1. Name of the raw material : Cinnamon Extract
2. Active components : Flavonoids, tannins, anthraquinones, glycosides, triterpenes and steroids
3. Common and scientific name/ Family of the plant : Cinnamon (*Cinnamomum bejolghotha* (Buch-Ham.) Sweet)/ LAURACEAE
4. Physical appearance : Light brownish solid with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using quercetin as a marker⁽¹⁾
7. Solubility : Soluble in ethanol and methanol
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 : Cinnamon bark extract at 2 and 6.83 mg exhibited anti – bacterial activity against *Cutibacterium acnes* (previously known as *Propionibacterium acnes*) with the inhibition zone of 8.46 ± 0.48 and 15.21 ± 0.22 mm⁽¹⁻²⁾, respectively, while the standard antibacterial drug, clindamycin at 0.002 mg gave the inhibition zone of 38.32 ± 1.07 mm⁽¹⁻²⁾

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10. Animal / human performance test : Anti-acne in volunteers⁽¹⁾
 11. Safety : No skin irritation in volunteers⁽¹⁾
 12. Pharmaceutical, food supplement or cosmetic applications : Anti-acne cosmetic products
 13. Recommended concentrations in the product : 2 % w/w
 14. Storage : Keep in tight and light protection container at room temperature
 15. Precautions : None
 16. Cost per kg : Please request

References

1. Pimpasut R, Manosroi A, Chankhampan C, Kitdumrongtham W, Siraket S, Santianithai R, Phansawat C and Manosroi J. (2021) Development of Anti-acne cream from extracts of Thai Spices. **The 11th Benjamitra Network National and International Conference** “Disrupted World in Transition to the New Normal”. May 27th, 2021 Online at Southeast Bangkok College (Corresponding author and co-authors are from Manose Health and Beauty Research Center)

2. Elin J, Kasturi K, Rajah F, Irda F. (2017) Anti-bacterial activity of Ethanolic Extract of Cinnamon Bark, Honey, and their combination effects against acne - causing bacteria. *Scientia Pharmaceutica*. 85(19) doi : 10.3390/scipharm85020019