
Specification : Active Balm A (Ointment base) / สารสำคัญบาล์มเอ (ขี้ผึ้งพื้น) /
(Manose RM-0037)

(Application : An active ingredient for anti-inflammatory / analgesic /
moisturizing cosmetic products / สารสำคัญในผลิตภัณฑ์ต้านอักเสบ /
บรรเทาปวดและผลิตภัณฑ์เครื่องสำอางให้ความชุ่มชื้น)

1. Name of the raw material : Active Balm A (ointment base)
2. Active components : Camphor and Plai oil
3. Common and scientific name/
Family of the plant : Camphor (*Cinnamomum camphora* (L.)J.Presl)/
LAURACEAE, Plai (*Zingiber cassumunar* Roxb.)/
LAURACEAE
4. Physical appearance : Light brownish clear liquid with specific herbal odor
5. pH : 5
6. Standardization : HPLC fingerprint using sabinene as a marker
7. Solubility : Soluble in oil
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-inflammation⁽¹⁾ and analgesic activities⁽¹⁻²⁾

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10. Animal / human performance test : Analgesic in human volunteers⁽³⁾
 11. Safety : No skin irritation in human volunteers
 12. Pharmaceutical, food supplement or cosmetic applications : Anti-inflammatory/ analgesic/ moisturizing ointment and cosmetic products
 13. Recommended concentrations in the product : 40 % w/w (in the ointment base)
 14. Storage : keep in dry and cool place protected from light
 15. Precautions : For external use only / avoid getting into eyes.
Rinse off and stop using when there is any undesirable effect.
 16. Cost per kg : Please request

References

1. Ozaki Y, Kawahara N, Hanada M. (1991) Anti-inflammatory effect of *Zingiber cassumunar* Roxb. and its active principles. **Chemical & Pharmaceutical Bulletin.** 39(9): 2353-6
2. Fan LY, Lin Q, Yang NY, Chen LH. (2020) Analgesic Effects of the essential oil from *Cinnamomum camphora* against nitroglycerin-induced migraine in mice. **Indian Journal of Pharmaceutical Sciences.** 82(1): 166-170
3. Chongmelaxme B, Sruamsiri R, Sruamsiri R, Dilokthornsakul P, Dhippayom T, Kongkaew C, Saokaew S, Chuthaputti A, Chaiyakunapruk N. (2017) Clinical effects of *Zingiber cassumunar* (Plai) : A systematic review. **Therapies in Medicine.** 35: 70-77