

Specification : Thao En-on extract / สารสกัดเถาเอ็นอ่อน

(Manose RM-0005)

(Application : An active ingredient for anti-inframmatory and anti-sprain/

สารสำคัญในผลิตภัณฑ์ด้านการอักเสบและแก้เคล็ดขัดยอก)

1. Name of the raw material : Thao En-on extract
2. Active components : Steroids, alkaloids and flavonoids^{(1), (2)}
3. Common and scientific name/ Family of the plant : Thao En-on (*Cryptolepis buchanani* Roem. & Schult.)/ ASCLEPIADACEAE
4. Physical appearance : Dark brownish solid with specific odor
5. pH : 4
6. Standardization : HPLC fingerprint using cryptosin as a marker
7. Solubility : Soluble in water and 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-sprain, anti-inflammation⁽³⁾, analgesic⁽⁴⁾, chondroprotective⁽⁴⁾ and hepatoprotective effects⁽²⁾
10. Animal / human performance test : Anti-inflammation in animals⁽³⁾
11. Safety : No skin irritation in human volunteers
12. Pharmaceutical, food : Topical products and cosmetics for anti-

supplement or cosmetic

inflammatory and anti-sprain

applications

13. Recommended

: 0.1-5 % w/w

concentrations in the product

14. Storage

: Keep in tight and light protection container at room temperature

15. Precautions

: Must not be used in patients with heart diseases and discontinue if there is any adverse effect

16. Cost per kg

: Please request

References

1. Sharma D, Sahu AN, Mujeeb M, Bharti A, Sharma A, Tripathi RK, Ashraf K. (2012) Development of pharmacognostical profile of *Cryptolepis buchanani* Roem & Schult.

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2. Padmalochana K, Dhana Rajan MS, Lalitha R, Sivasankari H. (2013) Evaluation of the antioxidant and hepatoprotective activity of *Cryptolepis buchanani*. **Journal of Applied Pharmaceutical Science.** 3(2): 99-104

3. Laupattarakasem P, Wangsrimongkol T, Surarit R, Hahnvajjanawong C. (2006) *In vitro* and *in vivo* anti-inflammatory potential of *Cryptolepis buchanani*. **Journal of Ethnopharmacology.** 108: 349-354

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