

Product Specification : Cosmetic Product 006

(ผลิตภัณฑ์เครื่องสำอาง)

Name : Skin Nourishing Massage Cream (for pain and sprain)
(ครีมหวดบำรุงผิว)

Thai FDA Registration No. : 50-1-5901633

Active Compositions : Containing natural products from Thai medicinal plants including Rice Bran/ รำข้าว (*Oryza sativa* Bran), Thao En-on/ เถาเอ็นอ่อน (*Cryptolepis buchanani* Roem. & Schult), Pepper/ พริกไทย (*Piper nigrum*), Rose-colored Leadwort/ เจตมูลเพลิงแดง (*Plumbago indica*), Tumeric/ ขมิ้นชัน (*Curcuma longa* L.) and Plai/ ไพล (*Zingiber montanum* (Koenig) Link ex Diet) encapsulated in nanovesicles

Characteristics :

- Physical appearance : Light brownish semi-solid cream
- pH : 5
- Odor : Light specific herbal odor

Standardization : HPLC fingerprint by using γ -oryzanol or curcumin or piperine as a marker

Biological activities :

- Anti-inflammation activities by inhibiting the release of nitric oxide in macrophage (RAW 264.7) of $59.60 \pm 1.31\%$ at 5 mg/ml in comparing to the standard triamcinolone acetonide of $42.59 \pm 2.28\%$
- Anti-inflammation activities by inhibiting the denaturation by heat of albumin from egg white at the IC_{50} value of 8.67 mg/ml of 0.27 fold of the standard drug, diclofenac which gave the IC_{50} value of 2.38 mg/ml
- Anti-inflammation activity in EPP (ethyl phenyl propiolate) induced ear edema of Wistar rats at 30 minutes of $75.43 \pm 14.93\%$ of 1.33 folds of the standard anti-inflammatory drug, diclofenac gel (1%) which gave $56.57 \pm 12.20\%$

Clinical Performance : Reduce inflammation and pain/ sprain

- Microbial Contamination** : None
- Safety Evaluation** : No skin irritation in human volunteers by the closed patch test
- Stability** : Physical and chemical stability by the freeze-thaw process (45 and 4 °C) of 6 cycles
- Shelf life at 30 °C** : 5 years
- Indication and use** : Apply on skin, neck, waist, back and joints (knees, ankles, finger joints, wrist etc.) where needed
- Packaging and Storage** : 15-25-50 grams in a bottle / keep in dry and cool place protected from light
- Precaution** : - For external use only
- Avoid getting into eyes
- Rinse off and stop using when there is any undesirable effects