

Specification : Pepper Extract / สารสกัดพริกไทย (Manose RM-0014)

(Application : An active ingredient for anti-sprain and increase blood circulation / hair loss protection cosmetics and weight loss food supplements / สารสำคัญในผลิตภัณฑ์ยาจากสมุนไพร แก้เคล็ดขัดยอก / เพิ่มการไหลเวียนโลหิต / เครื่องสำอางป้องกันผมร่วง และผลิตภัณฑ์เสริมอาหารลดน้ำหนัก)

1. Name of the raw material : Pepper Extract
2. Active components : Alkaloids, monoterpenes and volatile oils ⁽¹⁾
3. Common and scientific name : Pepper (*Piper nigrum* L.) / PIPERACEAE / Family of the plant
4. Physical appearance : Light brownish solid with specific odor
5. pH : 5
6. Standardization : HPLC fingerprint using piperine as a marker ⁽¹⁾
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-oxidant ⁽¹⁾, burning effect ⁽²⁾, anti-inflammation ⁽³⁾ and anti-sprain ⁽⁴⁾
10. Animal / human performance test : Anti-inflammation in animals and anti-sprain in human volunteers ⁽⁴⁾
11. Safety : No skin irritation in human volunteers
12. Pharmaceutical, food supplement or cosmetic : Active ingredient in anti-sprain and increase blood circulation / hair loss protection in

