

Specification : Golden Shower pod extract / สารสกัดฝักคูน

(Manose RM-0006)

(Application : An active ingredient for anti-wrinkle / whitening cosmetics

and food supplements / สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านริ้วรอย /

ช่วยให้ผิวขาวและผลิตภัณฑ์เสริมอาหาร)

1. Name of the raw material : Golden Shower pod extract
2. Active components : Anthraquinones, flavonoids and proanthocyanidins⁽¹⁾
3. Common and scientific name/
Family of the plant : Golden Shower (*Cassia fistula* L.)/
LEGUMINOSAE-CAESALPINOIDEAE
4. Physical appearance : Brownish solid with specific herbal odor
5. pH : 4
6. Standardization : HPLC fingerprint using catechin as a marker
7. Solubility : Soluble in water and ethyl alcohol
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-oxidative activities (DPPH, lipid peroxidation and chelating activity), anti-wrinkle effect by inhibiting MMP-2 (collagen degradation enzyme) and whitening effect by inhibiting tyrosinase enzyme
10. Animal / human performance test : Anti-oxidative activities in animals⁽²⁾
11. Safety : No skin irritation in human volunteers
12. Pharmaceutical, food supplement or cosmetic applications : Anti-wrinkle/ whitening cosmetics and food supplements
13. Recommended concentrations in the product : 0.1-5 % 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. Bahorun T, Neergheen VS, Aruoma OI. (2005) Phytochemical constituents of *Cassia fistula*. **African Journal of Biotechnology**. 4(13): 1530-1540
2. Neelam C, Ranjan B, Komal S, Nootan C. (2011) Reviews on *Cassia fistula*. **International Journal of Research in Ayurveda & Pharmacy**. 2(2): 426-430