

Specification : White Siris Extract/ สารสกัดทึงถ่อน (Manose RM-0125)

(Application : An active ingredient for hair blackening and hair growth promotion cosmetic products/ สารสำคัญในผลิตภัณฑ์เครื่องสำอางช่วยให้ผมดำและกระตุ้นให้ผมงอก)

1. Name of the raw material : White Siris Extract
2. Active components : Triterpenoids, carbohydrates, glycosides, phytosterols, phenolic compounds, saponins, tannins and flavonoids⁽¹⁾
3. Common and scientific name/ Family of the plant : White Siris (*Albizia procera* (Roxb.) Benth.)/ FABACEAE
4. Physical appearance : Brownish powder with specific odor
5. pH : 5 (1% in distilled water)
6. Standardization : HPLC fingerprint using catechin and quercetin as markers⁽²⁾
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 :
 - Antioxidant DPPH radical scavenging ($SC_{50} = 0.02 \pm 0.01$ mg/ml) (standard vitamin C = 0.01 ± 0.01 mg/ml)⁽³⁾
 - Tyrosinase stimulation activity in cell line of $89.38 \pm 16.71\%$ at 1 mg/ml (theophylline = $63.77 \pm 14.64\%$ at 0.1 mg/ml)⁽³⁾
 - Melanin induction activity in cell line of $43.04 \pm 9.74\%$ at 1 mg/ml (theophylline = $50.07 \pm 11.61\%$ at 0.1 mg/ml)⁽³⁾

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10. Animal / human performance test : - Hair growth promotion activity in animals⁽⁴⁾
11. Safety : -
12. Pharmaceutical, food supplement or cosmetic applications : Hair blackening and hair growth promotion cosmetic products
13. Recommended concentrations in the product : 1-10 %w/w
14. Storage : Keep in tight container at cool place (4 °C) protected from light
15. Precautions : None
16. Cost per kg : Please request

References

1. Mohammed A.R.R. and Hashim G.H. Medicinal importance of leaves extracts of *Albizia Procera* (Roxb.) Benth in Sudan against some bacterial pathogens infected human and animal. **J Antimicro Agent**, 2021; 7(7): 1-4.
2. Srivastava V., Verma S., Panwar S., Deep P. and Verma S. A brief review on phytopharmacological reports on *Albizia procera*. **Asian Journal of Pharmacy and Pharmacology**, 2020; 6: 144-149.
3. Manose In-house Project “Extract from Thai Medicinal Plant for Hair Blackening and Hair Growth Promotion Activities” **Manose Health and Beauty Research Center** (www.manose.co), unpublished, 2018.
4. Himaniarwati, Arba M., Susilawati Y. and Mustarichie R. Hair growth promoting activity of langir bark (*Albizia saponaria* Lour.) ethanol extract: *In-vivo* assay. **RASAYAN Journal of Chemistry**, 2022; 15(3): 2065-2071.