

Specification : Purple glutinous rice extract / สารสกัดข้าวเหนียวดำ
(Manose RM-0015)

(Application : An active ingredient for anti-wrinkle/ whitening cosmetic
and food supplements / สารสำคัญในผลิตภัณฑ์เครื่องสำอางต้านริ้วรอย/
ช่วยให้ผิวขาว และผลิตภัณฑ์เสริมอาหาร)

1. Name of the raw material : Purple glutinous rice extract
2. Active components : Anthocyanins, alkaloids, glycosides and flavonoids⁽¹⁾
3. Common and scientific name/ Family of the plant : Purple glutinous rice (*Oryza sativa* L.)/
GRAMINEAE
4. Physical appearance : Dark purple solid with specific odor
5. pH : 5
6. Standardization : HPLC fingerprint using anthocyanin 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 (DPPH, lipid peroxidation and chelating activity)⁽¹⁾ and whitening effect by tyrosinase inhibition⁽¹⁾
10. Animal / human performance test : Anti-wrinkle and whitening activity in volunteers⁽¹⁾

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11. Safety : No skin irritation in volunteers⁽¹⁾
 12. Pharmaceutical, food : Anti-wrinkle/ whitening cosmetic and food
supplement or cosmetic supplements
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 : None
 16. Cost per kg : Please request

Reference

1. Manosroi A, Chankhampan C, Kumguan K, Manosroi W, Manosroi J. (2012) Anti-aging performance evaluation of cream containing niosomes loaded with the purple glutinous rice (*Oryza sativa* Linn.) extract. **International Journal of Cosmetic Science**. 42 : 622 - 631 (Corresponding author and co-authors are from Manose Health and Beauty Research Center)