

# NANO - FACIAL SERUM

## FROM PINK RAMBUTAN EXTRACT BY NIOSOME TECHNOLOGY ENHANCED BY COCONUT MILK

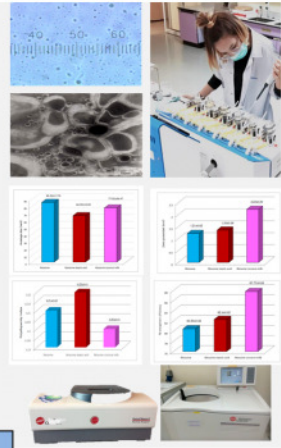
**COCOVITA**

### COCOVITA : Nano-facial anti-ageing serum

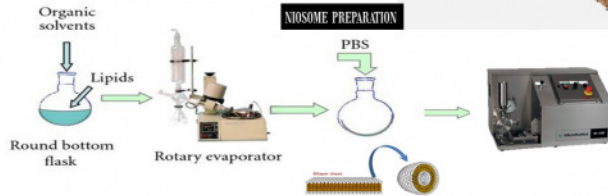
COCOVITA: Nano-facial anti-ageing serum has been developed from Pink rambutan extract which contains many anti-oxidants and phytochemicals, and also combined the Niosome technology has been developed from Coconut Milk to enhance the entrapment efficiency and transdermal delivery system. The COCOVITA serum can reduce fine wrinkles, remove dark spots and blemish, give skin brightening and restore skin moisture.

### COCONUT MILK *Cocos nucifera L.*

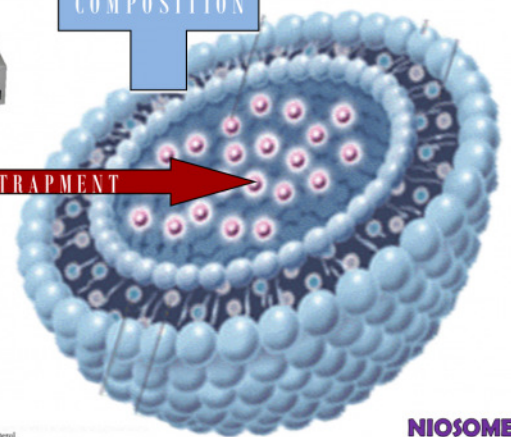
Several fatty acids as a natural emulsifier system. It can be used as an enhancer for niosome preparation



COMPOSITION



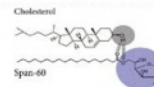
ENTRAPMENT



### NIOSOMES

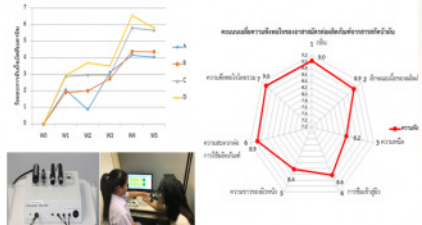
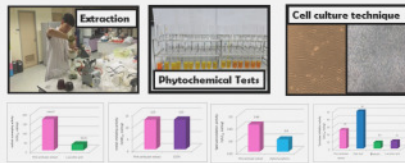
**Non-ionic surfactant + Cholesterol + Enhancer**

Stearic acid can enhance physical stability, entrapment efficiency and transdermal delivery system but it is expensive and harmful to human body



### PINK RAMBUTAN *Nephelium lappaceum L.*

The Geographical Indication (GI) plant of Klung, Chantaburi Province, Thailand.



### INNOVATION AWARDS



### INNOVATION AND ADVANTAGES

- Pink rambutan extract can be possible to use as an ingredient for anti-ageing cosmetics.
- The First using of Coconut milk as an enhancer for niosome preparation to enhance the entrapment efficiency and transdermal delivery system
- No cosmetic or cosmeceutical product that contains the Pink rambutan extract, and also the use of Coconut milk as an enhancer for niosome preparation in worldwide market
- This innovation can be further promoted the plantation of Pink rambutan and Coconut to increase income, and also conservation of the plants.
- and also to be the organic farm for certified organic products.
- This project has been supported by National Research Council of Thailand, and Rajamangala University of Technology Thanyaburi.
- The scientific report is in process to be considered to publish into an international journal.
- Thai Patent Application Nos. 1603002524, 1603002524

