



How Encapsulation Works

- Molecules of active ingredients are coated in a polysaccharide shell—think of it as a shiny, slippery, protective coating.
- This encapsulated coating serves as a carrier system for the active ingredients in your skincare, i.e. the ingredients that are capable of transforming your skin.
- Instead of activating all at once on the surface, encapsulated coatings protect your actives and release them slowly over time. This allows it to sink to deeper layers of your skin, where you can benefit most from active ingredients.
- When a skincare product like face wash with encapsulated ingredients is applied to your skin, the coating starts to fade away, and the active ingredients are released slowly over time, active ingredients are released little by little, which means it's also working on improving your skin with its amazing properties on skin for a longer period of time.

Key Properties of Encapsulated beads

- Free of microplastics.
- Non GMO
- Perfect Spherical geometry
- Has non-toxic, non-comedogenic and non-allergenic properties
- Oxidatively stable .
- Gentle and Effective on skin .
- Rapid dispersion with excellent uniformity.
- No change in Product pH.
- Encapsulation Stabilizes actives by protecting them from environmental factors, like UV light.
- Easily dispersed by finger to provide smooth and super feeling.
- Provide visual effects and delivery actives.
- Provide Systems that can incorporate Hydrophobic or Hydrophilic actives such as Fragrance, Colour, Vitamin and Herbal Extract etc

Formulation Procedure:

Step I :- Take water (62.59) and in this add the xanthan gum & Pvp-k30 & glycerin (A mixture)

Step II :- In another container take 18.14 ml water also add SLS & C.A.P.B heat at the temperature of about 75° C(B mixture)

Step III:- Add (B mixture) in (A mixture) very slowly & mix well , add fragrance and Lemon Oil beads at the end of the manufacturing at moderate temperature and at slow stirring.

INCI NAME:

Microcrystalline cellulose, Hydroxy propylmethyl cellulose, Lactose, Citrus medicalimonum (Lemon) Peel Oil.

Formulation Tip

Ingredients	Qty(%ww)
Xanthan Gum	2.2gm
Pvp-k30	1.45gm
SLS	1.9 gm
Cocomido propyl betain (C.A.P.B)	3.72gm
Fragrance	Q.s (0.18)
Glycerin	10 ml
DI Water	80.73 ml
Lemon Oil beads	2%