

FORMULATION OF ENCAPSULATED LAVENDER BEADS FOR BODY WASH



Encapsulation is the physical-chemical technique or process by which a active ingredient is protected and surrounded by a polymeric wall made up of Lactose ,Mannitol, Microcrystalline cellulose and Hydroxypropylmethyl cellulose(HPMC) that isolates it from its environment.

Sprayspheres SC® beads are specially used for encapsulation that specifically deals with the incorporation of commercially available active material into protective system that can deliver the active to specific site.(e.g. conversion of liquid active agents or essential oils into beads/spheres.

Natural and biodegradable lactose and cellulose based colored beads/spheres infused with Lavender Extract via encapsulation.

Encapsulated Lavender Extract beads break down upon rubbing without leaving a residue.

Easily dispersed, delivering the active ingredient.

Improved stability in final products during processing (e.g. less evaporation of volatile active)

Creation of visible effects.

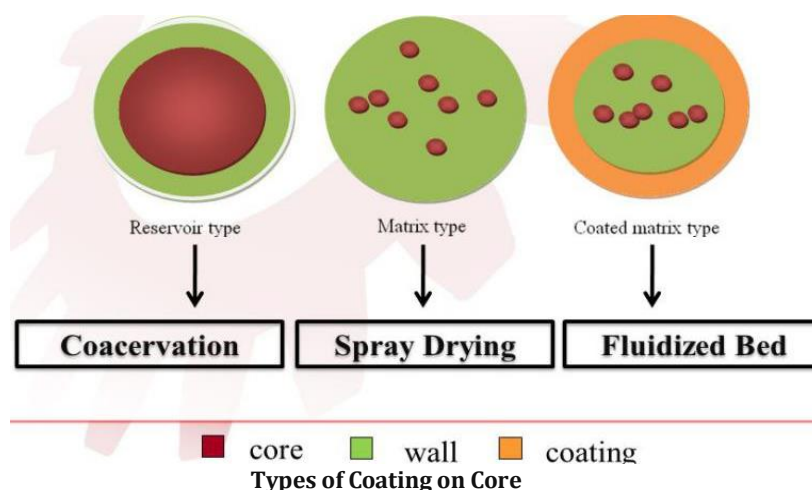
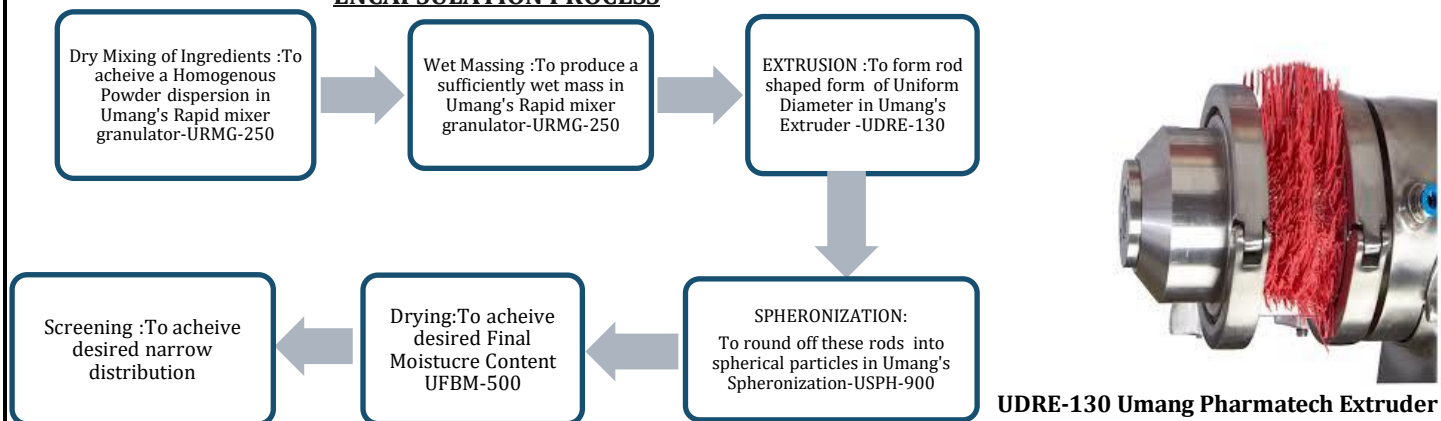
Encapsulated Lavender Extract beads /spheres are available in a variety of colors.

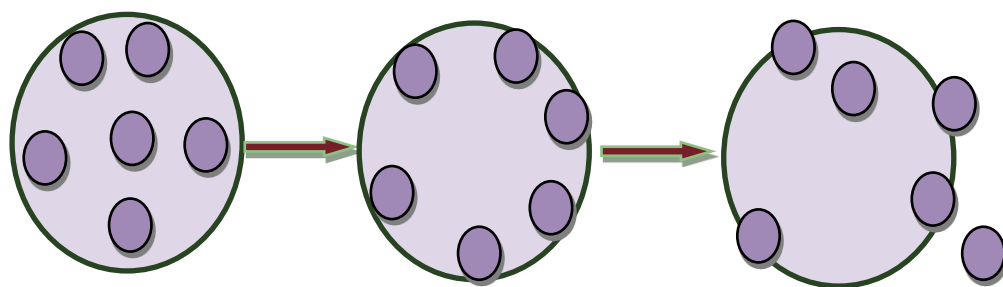
Encapsulated Lavender Extract beads/spheres in bodywash lightens dark spots and blemishes on the skin resulting into an improved skin complexion.

Key Words:

Encapsulated Beads, Spheres, Cosmetic beads, Beads for special effects, Cosmetic beads for aesthetic effect.

ENCAPSULATION PROCESS





Encapsulated Lavender beads

Rupture by Chemical or Physical factors
ENCAPSULATION MECHANISM

Stage of Release

How Encapsulation Works

- Body wash are generally made up of two parts: a lipophilic part, which is fat-soluble, and a hydrophilic part, which is water-soluble. Dirt itself is lipophilic, which means that it won't dissolve in water. Simply rinsing yourself with water after you've got some dirt on yourself won't get you clean. Only something with a fatty product will dissolve the dirt and lift it off your skin. The moisturizing capabilities often come from the oils and natural active ingredients that are mixed into the formula of these body washes, provides a luscious lather, is travel-friendly and gives all-over hydration.
- This combination of lipophilic and hydrophilic ingredients is called a surfactant. A surfactant cleans your skin because the lipophilic part dissolves the dirt on your skin, while the hydrophilic part washes it away.
- Body wash with encapsulated beads contains active ingredients that 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.

Key Properties of Encapsulated beads

- Free of micro plastics.
- 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 (72.59) ml and in this add the xanthan gum & Pvp-k30(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 at the end add fragrance and Encapsulated Lavender beads at moderate temperature and at slow stirring.

INCI NAME:

Cellulose, Hydroxy propylmethyl cellulose, Lactose, Lavandula angustifolia (Lavender) Flower Oil.

FORMULATION TIP

Ingredients	Qty(%ww)
Xanthan Gum	1.5gm
Pvp-k30	1.45gm
SLS	2.72 gm
Cocamidopropyl betain (C.A.P.B)	2.72gm
Fragrance	Q.s (0.18)
DI Water	91.43 ml
Lavender beads	2%