

It all started with a
safflower...

Safflower is our primary seed stock because:

- Low water requirements
- No pesticides used
- Wonderful carrier of cosmetic oil with no known allergen risks
- Renewable crop with a low environmental impact and certified non-GMO



The process begins.

The safflower seed is gently deconstructed through a novel separation and purification process that respects the natural energy source harnessed inside the oil seed.

The result is the unveiling of the pearl within the seed: **oleosomes**, an elegant, innovative, naturally powerful ingredient.

Hydresia® Oleosomes are a high-performance, multi-tasking ingredient that boast a unique, continuous moisture delivery system that is an all-natural alternative to chemical emulsifiers and other irritating ingredients.

From us to you,
it is then delivered to chemists and formulators the world over to create end-user branded products.

A Natural Product from a Natural Process.
Natural. Authentic. Performance.



A DIFFERENCE YOU CAN FEEL

END-CONSUMER BENEFITS

- Improved skin health: rebuilds the skin barrier faster by retaining skin lipids, therefore improving moisture retention twice as fast as standard, irritating, non-ionic emulsifiers
- Outstanding aesthetics: oleosomes offer customers a 'difference you can feel' in an all-natural format

MANUFACTURER BENEFITS

- Increased throughput: enables formulation in the lab or the plant to be quicker and with less energy (i.e. cold process)
- Upgraded formulations: replaces synthetic emulsifiers and barrier agents while extending the release of actives, fragrances and other oil soluble ingredients

HYDRESIA® OLEOSOME FORMULARY FACTS

Formulate with Ease

1. When using Hydresia® Oleosomes as a primary emulsifier, include thickeners to ensure the viscosity of the finished formulation is over 9000 CPS (spindle 2) for optimal stability.
2. As is, mix at 0-400 rpm. In an emulsion, mix at 0-800 rpm with a propeller when adding oil phase ingredients to concentrated oleosomes. Once the water phase is added, in-line homogenization up to 3000 rpm is fine.
3. Temperatures of up to 55°C are acceptable for all Hydresia® system products. Temperatures of 80°C are acceptable for up to one hour for Hydresia® system products. Oleosomes are stable in freeze/thaw states in most formulations; however, the raw material should not be frozen.
4. Formulate at a pH between 3.5 - 9.0
5. Use Hydresia® SF2 for high alcohol content formulations.
6. Most surfactant systems are compatible; however, avoid harsh anionics (e.g. SLS).
7. Most preservatives are compatible; however, avoid protein cross-linkers (e.g., DMDM hydantoin).
8. Hydresia® Oleosomes can emulsify up to 3 times their weight in oils.
9. Hydresia® Oleosomes have an HLB range of 5-15 (8-13 optimal).
10. Hydresia® Oleosomes can load up to 30% of their weight in oil soluble actives.

HYDRESIA® OLEOSOME PORTFOLIO

SF2

Safflower oleosome delivery system that functions to improve the aesthetics of all formulations for unparalleled efficacy in personal care.

Main Applications: Skincare, Suncare, Eye Area Colour Cosmetics, Facial Colour Cosmetics and Hand & Body Care

G12

Long-lasting moisturization and emulsifying traits as a result of delayed release of oils and vitamins, supplied by safflower oleosomes.

Main Applications: Body Washes, Facial Cleansers, Hair Shampoos and Conditioners and Hair Serum

Dulcé

Luxurious long-lasting moisturization and emulsifying traits as a result of delayed release of emollient almond oil and vitamin E, supplied by sweet almond oleosomes.

Main Applications: Premium Personal Care and Unscented Skincare