SHARON
PERSONAL CARE

Capsol™

SUNSCREEN OLEOSOMES

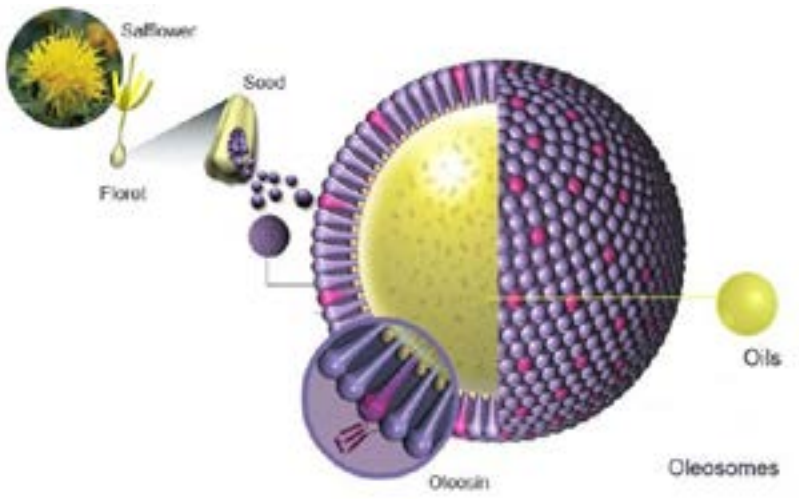
Natural and Multifunctional Sun Care Encapsulation and Delivery System

WHAT ARE OLEOSOMES?

A 100% natural, complex organelles of safflower seeds, contain:

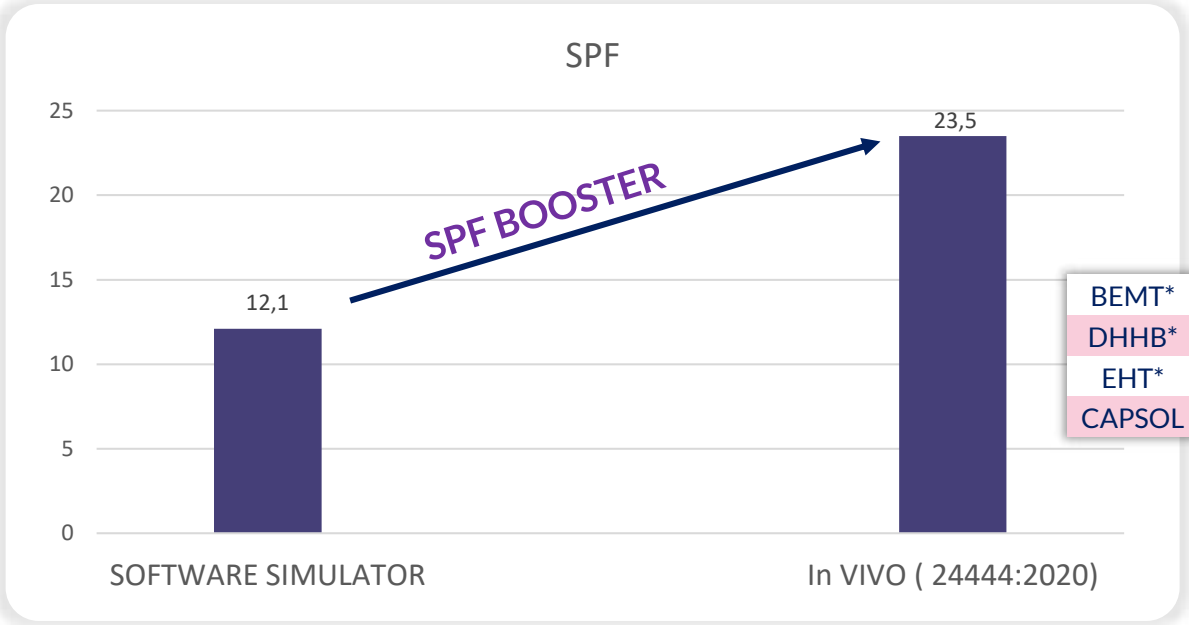
- **oleosin proteins,**
- **phospholipid membrane,**
- **triacylglycerol**

components that **nourish** skin, and at the same time, **significantly reduce** the amount of organic actives necessary to obtain stable, high SPF formulas.



SHARON PERSONAL CARE is a **global supplier** of ingredient solutions for a broad range of personal care products – including advanced preservative systems, formulation building blocks, functional ingredients and Bio-actives.

SPF boosting effect based on organic filters



*BEMT: bis-ethylhexyloxyphenol methoxyphenyl triazine | *DHHB: Diethylamino hydroxybenzoyl hexyl benzoate | *EHT: Ethylhexyl Triazone

Leveraging nature's technology, CapSol™ allows **loading a minimum of UVA and UVB filters inside the triglyceride core, and on the outer shell.**

An average booster effect of 40% corresponds to a potential filter reduction up to 50%

FORMULATION BENEFITS

- High SPF, Broad-spectrum Claims Up to 50% reduction in organic actives required to achieve desired SPF
- Superior skin feel
- Lower levels of UV filters
- Long-lasting Hydration
- Water Resistance with no additional film formers
- Emulsification up to X3 its weight in oil
- Globally Compliant

CONSUMER BENEFITS

- Sustainable and natural
- Skin-friendly pH
- Skin nourishing lipids, including natural tocopherol
- Less contact and potential absorption of organic actives, given lower use-levels
- Less emission of UV filters to the environment

Sensorial Effects of Oleosomes
in Sun Care Preparations

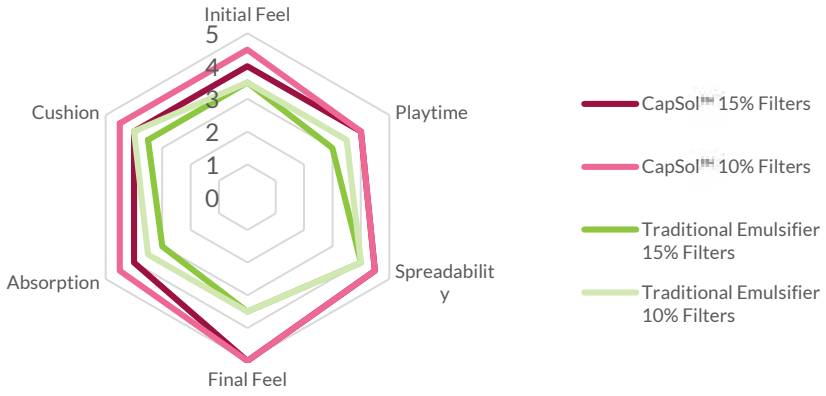
OBJECTIVE:

Evaluation of sensorial characteristics of sun care preparations containing CapSol™ and organic sunscreen filters.

Carthamus Tinctorius (safflower) oleosomes-containing products were compared for sensory properties with similar products containing traditional emulsifiers and retail products with similar SPF.

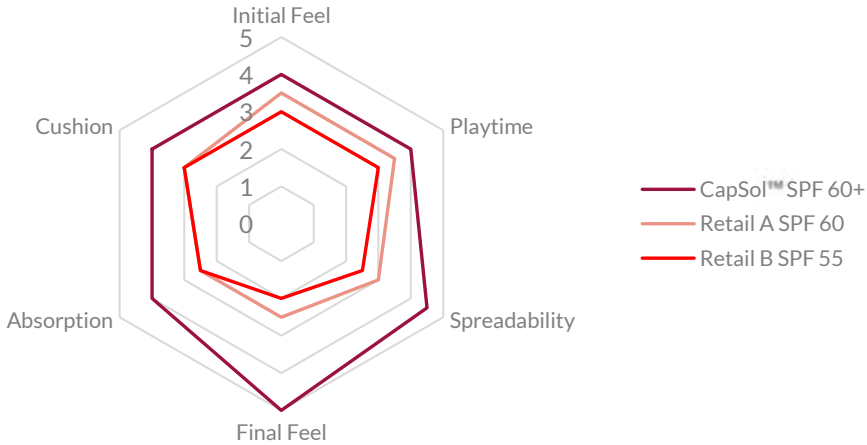
Study A: The sensory panel was conducted on two emulsions: A (10% organic sunscreen + 10% Capsol) and B (15% organic sunscreen and 10% Capsol). The emulsions containing Capsol were then sensory compared to the same replicated formulations by replacing the Capsol with a blend of traditional emulsifiers.

Sensorial Comparison: CapSol™ vs. Traditional Emulsifer



Study B: The sensory panel studies were conducted comparing a sunscreen preparation containing CapSol™, in vivo tested for an SPF 60+, versus two retail products, SPF 60 and SPF 55.

Sensorial Comparison: CapSol™ vs. Retail



Better sensorial profile for CapSol™ formulation

Sustainability and environmental consciousness

Harnessing the power of nature

CAPSOL™ oleosomes are extracted from the seeds of Safflower (Carthamus tinctorius).

- cultivated and harvested in California, USA
- no pesticides
- no synthetically-produced fertilizers
- low water requirements
- non-GMO.

Oleosomes are isolated fully intact, thanks to a proprietary process, to maintain the micro-oil bodies as nature designed them with their full capabilities.

They provide a perfect combination between full **naturality and high performance.**

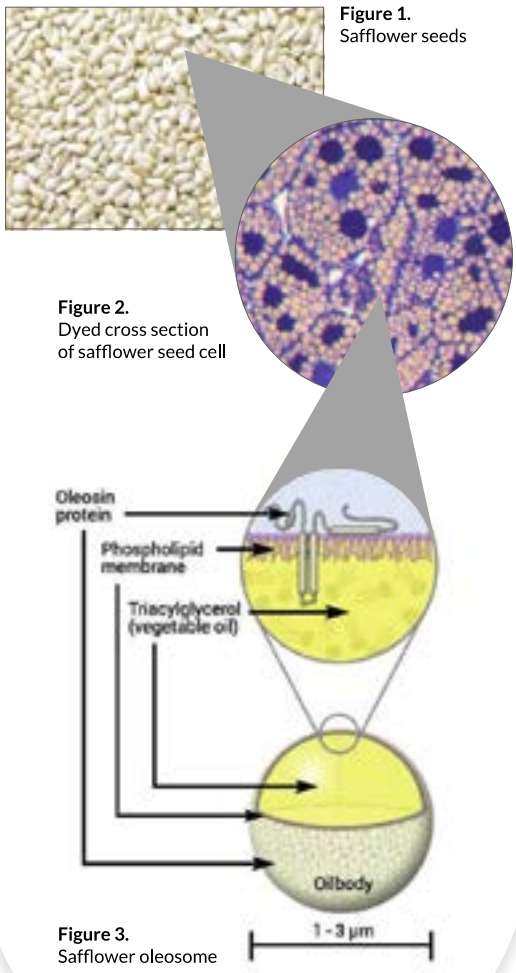
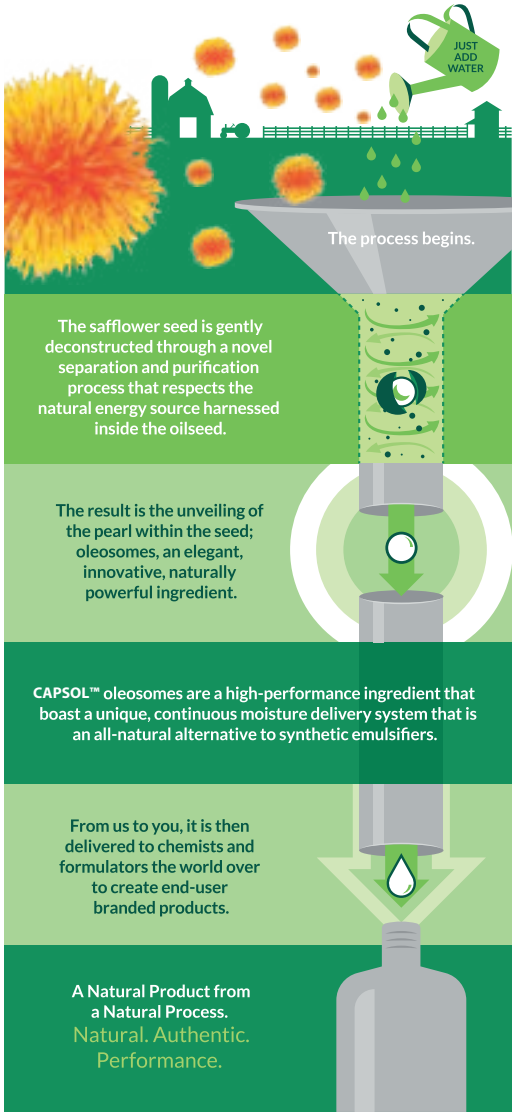


Figure 1. Safflower seeds

Figure 2. Dyed cross section of safflower seed cell

Figure 3. Safflower oleosome



Manufacturing:

Novel separation and purification techniques that enables the recovery of high quality oleosomes and proteins in their natural state.

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