LUPIN PROTEIN CARE FOAM
AN EXAMPLE OF A HIGH OIL CONTENT
DELIVERY SYSTEM FOR APPLICATION ON SKIN

Fraunhofer UMSICHT and its partners have developed a lupin protein care foam from renewable, non-petrochemical sources, which
• is rich in lipids (20%) without fatty feeling
• features fast absorption into the skin
• shows no abrasion during usage
• is vegan.

The lupin protein isolate E involves good emulsifying properties and supports the stabilization of the emulsion based of
• water
• sunflower oil
• lupin protein
• xanthan gum
• and alkyl polyglycoside.

The simple composition leads to a consumer-friendly foam with good care properties. Fraunhofer UMSICHT provides with its expertise the development of a product of its own.

Keywords
• sustainable raw materials
• lipophilic foam
• consumer friendly formulation
• IP of Fraunhofer UMSICHT
• Know-how and support in licensing

Industrial Sectors
• cosmetic industry
• personal and home care
• medical care
Your benefit

A skin friendly formulation by renunciation of ingredients from petro-chemical raw materials.

Due to its excellent absorption behaviour, the foam is suitable to transport your active agent of choice into the skin.

Our service

Fraunhofer UMSICHT and its partners support the development of own innovative products, for instance:

- body mousse
- care for atopic skin
- shaving foam
- sun protection
- oil foam (shower)
- hair care
- animal cosmetics.

Moreover, Fraunhofer UMSICHT holds IP in this field and is able to give professional support in licensing.

Technological specification

The fundamental formulation consists of:

- water
- vegetable oil
- protein
- poly-sugars (viscomodifier)
- preservative
- foam booster¹
- propellant (lipophilic).

The basic formulation consists of 20% oil. There is no abrasion residue after usage. The oil and protein could be varied, haptic modifier could be added to change the formulation properties to meet the customer needs.

¹ depending on the specific formulation