

# Non-hydrogenated vegetal butters boost skin-feel

A large number of ingredients are used in cosmetic applications. Lipids are commonly known as water non-soluble compounds. Depending on their structure, they can be classified as: fluid lipids (oils), waxy lipids (butters) or solid (waxes). Lipids are constituted by triglycerides esters and a fraction called 'insaponifiable content'.

The following study is aimed at comparing vegetal and hydrogenated butters' properties. Cosmetic butters are used in personal care formulations for their soothing and moisturising skin benefits, which make them the ideal choice for skin pampering. Cosmetic butters are the perfect solution to bring pleasant structure to finished formulas.

## Technology at the service of nature

Cosmetic butters become more and more essential in formulations when the desire is to incorporate natural or vegetal oils requiring a solid form. Typically, butters have their own source either natural or chemically modified. The most prevalent chemical process is the alteration by hydrogenation.

Hydrogenation consists of a chemical process that is applied in order to modify the molecular structure of the compounds in the oil and results in the conversion of liquid vegetable oils into a solid or semi-solid fat. Changing the saturation degree of the fat (reducing double and triple bonds in hydrocarbons through the addition of pairs of hydrogen atoms to a molecule, generally an alkene), also some important physical properties are subjected to several changes such as the melting range, which is the reason why liquid oils result in semi-solid form. The final compounds are chemically different from the starting compound, with a different modified structure and properties that totally diverge from the native oil ones.

To exploit all the native benefits of nature and to preserve the main oil properties, Brasca has introduced an innovative line of non-hydrogenated

## ABSTRACT

NH Butters are a selected range of non-hydrogenated vegetal butters. The 100% mechanical soft manufacturing method preserves the integral properties of the natural lipidic plant components, avoiding any destructive process. The unique plant lipids, technologically enhanced by patented triglycerides, can deliver high performance skin feel properties while revealing surprising new benefits. These include high resistance to oxidation, high drop point value (around 50°C), good organoleptic properties (low odour, low colour) and reliable batch consistency. Compatible with all cosmetic ingredients, NH Butters add exclusive features in terms of texture and structure to finished products, and help stabilise the formula thanks to the presence of natural triglycerides. Butters include Maracujia, Baobab, Black Cumin, Argan, Avocado, Apricot among many others.

vegetal butters issued from a patented technology offering various possibilities to keep all the natural plant benefits. The 100% mechanical and physical soft manufacturing method preserves the integral properties of the natural lipidic plant components, avoiding any destructive process. The resulting compounds are vegetable butters whose molecular structure is not modified by chemical treatments.

The unique plant lipids are technologically enhanced by a patented selection of triglycerides containing fully saturated fatty acids with chain length C<sub>16</sub>-C<sub>18</sub> which require a new and specific

INCI name: Palmitic/Stearic Triglycerides (WO2012/131624 A1). In global cosmetics, vegetable triglycerides are used as emollient compounds, thickener agents, nourishing and moisturising skin protectors, reflecting their importance for cosmetic formulations and for products for topical applications.

## From nature to cosmetics

Thanks to its great importance, globally, nature has always been the preferred supplier for cosmetic applications. Through its NIP (No Impact in Progress) philosophy, which is applied to all products and technologies, Brasca is involved in a mission for Quality, People safety and Environment preservation. Following this objective, Brasca developed a line of non-hydrogenated butters that shows a full respect of the integrity of intrinsic properties protecting all native benefits of vegetable oils.

Specifeel NH Butters Line represents an innovation in terms of cosmetic butters: high-performance technical properties are linked to great skin-feel cosmetic benefits. The higher resistance to oxidation, higher drop point value (around 50°C), good organoleptic properties and reliable batch consistency are the technical features that certified the high-performance cosmetic butter.

Luxurious and excellent skin-feel properties reveal the unique design of these butters. Thanks to the 100% protection from the oil, each fits



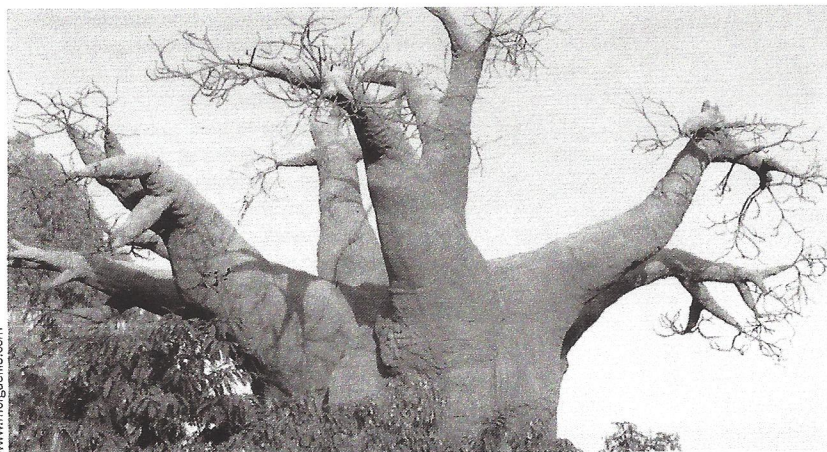
completely the specific skin demand. The pleasant skin-feel profile and the interesting after-feel are linked to the native components of the butters.

Selected pure vegetable oils are involved in the production of the butters, the innovative range includes: Baobab, Black Cumin, Maracuja, Apricot, Argan, Avocado and Rose Hip. Innovation and tradition is the guideline for these high-technology structuring compounds. The line is composed of traditional and well-known butters together with unknown butters. Several claims are pushed for traditional references and therefore, in this article we focus on the discovery of the benefits and the added value of the innovative references: Baobab, Black Cumin and Maracuja.

### Baobab: non-tacky skin regeneration

A symbol of strength, power and resistance, baobab typically grows in Africa and is a symbol of life. Its lipidic components show high moisturising, emollient and soothing properties. They contain vitamins A, D, E and F, known for properties such as rejuvenation, renewal of cell membranes or antioxidant capacity. Baobab butter is an ideal choice to help soothe dry and damaged skin, as well as for intensive hair care. The contained omega 3, 6 and 9 were also studied for epithelial tissue regeneration.

The baobab butter ingredient is completely odourless, with a colour tending towards cream. This light colour avoids any interference with pigments in makeup applications. The touch is very creamy, even if the skin filming effect is average. It spreads well, with non-sticky benefits. Thanks to the properties of its components, this butter is typically used to regenerate the skin and give elasticity, especially for dry skins. Moreover, it also gives brightness to dry hair and can be used in leave-on masks.



Baobab.



Maracuja.

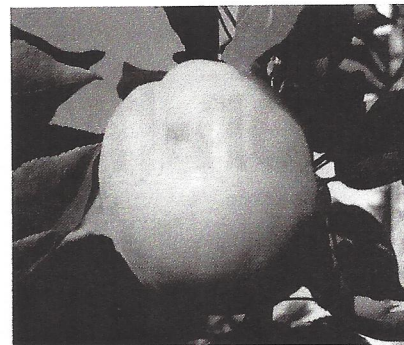
### Black cumin: spicy skin stimulation

Seen as the 'seed of blessing' by the ancient Arabic civilisation, black cumin shows many beneficial effects (it is seen as an antioxidant, antiseptic, aphrodisiac, depurative plant). Used in masks and creams dedicated to oily skins, its cleansing properties make it an interesting skin stimulant. Rich in tannin, this tonifying plant is ideal to spice up the skin with reinforcing strength.

The black cumin butter ingredient is a spicy butter with characteristic organoleptic properties. It shows creamy touch and good spreadability, with a strong film-forming on the skin characterised by its brilliance. It can be used in skin care, and especially in men's care lotions or emulsions. Thanks to its properties as a stimulant and tonic, this ingredient is also indicated for a deep cleansing of the skin.

### Maracuja: fruity skin nutrition

Symbol of passion, the passion fruit (maracuja) has been used medicinally for hundreds of years, and its benefits are scientifically documented. It is most widely known for its soothing and lenitive properties. The fruit shows a rich content



Apricot.

in vitamin C, calcium, phosphorus and essential fatty acids. It is perfect to nourish the skin with a fruity unique note.

The maracuja butter ingredient demonstrates a fruity note and a characteristic colour. It shows a very good glossy effect, together with a smooth touch and a noticeable gliding effect due to low absorption and tackiness. It is perfectly indicated for makeup applications, especially for lipbalm formulas. It can also be used in skin care to give silky smoothness for a clean skin. Used in fruity massage butters, it helps smooth gliding effect intended to ease muscular aches with a fresh fruit note. Each reference can be used in cosmetic applications, such as emulsion (3% to 20%), massage butter (20% to 40%), makeup (stick from 5% to 15%, balm from 15% to 35%, mascara from 3% to 5%). Compatible with all kinds of cosmetic ingredients, they are insoluble in water and glycols, therefore perfectly adapted to the oil phase.

### Coffee butter: long-lasting skin energy

The fragrance note of this coffee butter is very addictive for the senses, with its intense comforting smell, like a re-energising hot coffee. This exclusive skin awakener confers a luxurious sensation of plenitude to the skin and may be used in emulsions, toiletries, soaps, massage oils, balms, hair care and sun care preparations.

This coffee butter prepares the skin for an active day by insuring it with your daily dose of natural caffeine to recharge the batteries. The colour and the smell are intense, like a hot coffee and the touch is characterised by an excellent slipperiness. This butter contains natural caffeine to wake up tired skins and the coffee butter can be used in skin care and body care to restore energy and vitality to the skin. Its characteristic colour makes it an interesting ingredient for exclusive makeup formulas, for instance as a colour base.

### Rose hip butter: a rich blossom for demanding skins

Symbol of love and beauty, the rose is also linked to various emblems or beauty figures (such as Isis in Ancient Egypt, goddess of femininity). Rose butter is usually employed for its natural antioxidant and slightly astringent properties.

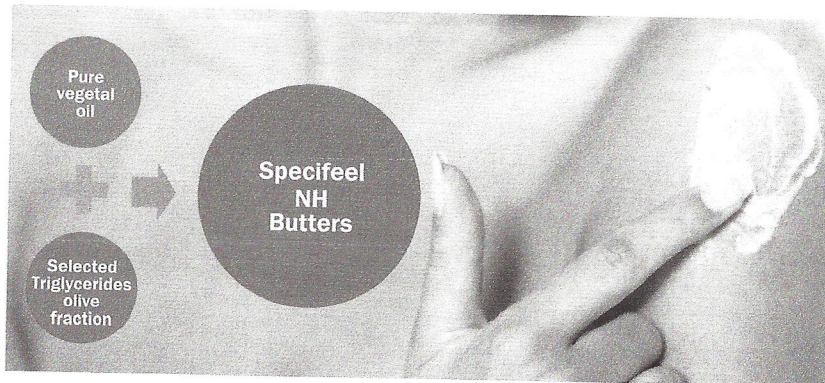
Rose hip's components have been studied to help improve skin elasticity, regenerate skin cells, slow down premature ageing, and reduce the formation of wrinkles. Rose hip butter is a perfect choice for mature, ageing or damaged skins.

This colourless and odourless multi-purpose vegetal butter has a creamy touch, spreads well on the skin with a tangible smoothness, and a rich touch.

Thanks to its components, it is used in cosmetics to prevent premature aging of the skin due to its emolliency. It is mainly used in skin care and body care, and it is also used to protect dry and damaged hair.

### Apricot butter: nutritive softness for mature skins

A soft, velvety skin protects apricot precious nutriment. This soft apricot butter, similarly to apricot kernel oil, provides skin-nourishing benefits.



Non-hydrogenated butters process.

A moisturising ingredient high in both vitamins A and E, it constitutes a great emollient for ageing skins, nourishing them and helping to revitalise and soothe the skin.

Odourless and colourless, this butter constitutes a great advantage for cosmetic formulas sensitive to interferences with final organoleptic properties. Its creamy touch creates a good film-forming on the skin, with a low skin absorption rate giving a rich feel.

With a medium spreadability and tackiness, it reveals a better body consistence making it ideal for both body and face skincare. It is also used

in hair care products for brightness and smoothness, as well as makeup for consistency.

### Conclusion

NH Butters are a selected range of non-hydrogenated vegetal butters. The 100% mechanical soft manufacturing method preserves the integral properties of the natural lipidic plant components, avoiding any destructive process. Compatible with all cosmetic ingredients, NH Butters add exclusive features in terms of texture and structure to finished products and help stabilise the formula thanks to the presence of natural triglycerides.

PC

**X50 CAPSULES**

Cross-polarized light pictures under study conditions  
Before After 4 weeks After 8 weeks

Voluntarios: 02646  
Study: 025-0271-NADES-NA  
Sponsor: 02646-NA  
SEN: 02646-NA

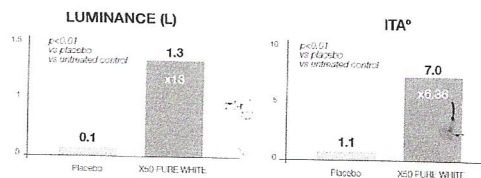
infinitec

BARCELONA

## INTELLIGENT TARGETING DEVICES X50 PURE WHITE

X50 Capsules™ targeted to melanocytes with strong whitening effect. For a brighter, lighter skin appearance.

**ITD Technology:** it combines the effect of a target peptide to membrane MC1 receptors blocking the physiological response of alpha-MSH and an internal peptide that inhibits the expression of tyrosinase within the melanocyte.



X50 PURE WHITE showed excellent lightening effectiveness on healthy volunteers compared to placebo characterized by an increase of L (in 75% of volunteers) and an increase of ITA° (in 80% of volunteers).

### Patented Product

X50 Capsules™ is a registered brand  
INFINITEC ACTIVOS S.L. BARCELONA SCIENCE PARK 15 21, Eixidrii Haxac 08018 BARCELONA (Spain)  
www.infinitec.es