

## TECHNICAL DATA SHEET

**Product Name:** Natural Bisabolol

**INCI Name:** Bisabolol

**CAS:** 23089-26-1

**Synonyms:** (-)-alpha-Bisabolol; (+)-alpha-Bisabolol; alpha-Bisabolol; Kamillosan; Levomenol

**Chemical Classification:** Alcohol (Terpenoid - Sesquiterpene)

**Functional Category:** Skin Conditioning Agent, Antioxidant, Anti-inflammatory Substance

**IUPAC Name:** 6-methyl-2-(4-methylcyclohex-3-en-1-yl) hept-5-en-2-ol

**Source of Raw Material:** China

**Description:** A monocyclic, unsaturated sesquiterpene alcohol. It appears in two configurations,  $\alpha$  and  $\beta$ . In nature, it is found as an active ingredient in chamomile (*Matricaria chamomilla*). It is present in large quantities in the wood of Candeia (*Vanillosmopsis erithropappa*/*Eremanthus erithropappus*). Although these plants have been traditionally used for centuries, bisabolol was only recently isolated from them and recognized as an active principle. Natural bisabolol is a clear, colorless to light yellow liquid. It is insoluble in water and glycerin but easily dissolves in ethanol, oils, and hydrocarbon emollients (e.g., isododecane).

**Effects on Skin and Benefits:** Bisabolol acts as an antioxidant and possesses anti-inflammatory and anti-apoptotic properties. Anti-apoptotic properties refer to the ability of a substance to prevent or reduce apoptosis, which is the process of programmed cell death. Substances with anti-apoptotic properties can protect cells from stress, damage, and death, thus helping maintain the functionality of tissues and organs.

- **Protection of Skin Cells:** Anti-apoptotic substances help protect skin cells from harmful factors such as UV radiation, pollution, and oxidative stress. These substances can reduce damage and cell death in the skin caused by these factors.

- **Reduction of Aging Signs:** One of the main causes of skin aging is cell loss due to

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apoptosis. Anti-apoptotic substances can slow the skin aging process by protecting skin cells and maintaining their integrity, resulting in firmer, smoother, and younger-looking skin.

- **Skin Regeneration:** Bisabolol can improve the skin's ability to regenerate and renew, which is especially useful for treatments after skin damage, such as sunburns, scars, and irritations.

- **Improvement of Hydration:** Bisabolol can help maintain skin hydration by preserving cells responsible for the skin's barrier function. This can contribute to softer and more elastic skin.

- **Reduction of Inflammation:** Since many anti-apoptotic substances also have anti-inflammatory properties, they can reduce skin inflammation and redness, which is beneficial for individuals with sensitive or irritated skin.

- **Absorption Enhancer:** Bisabolol enhances the percutaneous absorption of active cosmetic ingredients ("skin-penetration enhancer").

**Usage Instructions:** Add to the oil phase of emulsions. Typically used in concentrations of 0.1% to 1.0%. For external use only.

**Applications:** Widely used in the formulation of creams, lotions, pre/post-sun lotions, cosmetic products for sensitive skin care, post-shaving products, baby products, and cleansing products.

**Source of Raw Material:** Candeia wood (*Vanillosmopsis erithropappa* / *Eremanthus erithropappus*)

**Method of Extraction:** Direct steam distillation from tropical shrubs.

**Animal Testing:** The substance has not been tested on animals.

**GMO:** Not GMO

**Vegan:** Contains no animal-derived components

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