



LANTANINE®

Ref. FA017

DEFINITION

Lantanine® is a phyto-active substance obtained by hydroglycolic extraction from the leaves of Golden Alyssum (*Lantana camara*) from Madagascar. Active ingredient titrated in hydroxycinnamic derivatives, and naturally rich in essential oils and phenolic derivatives, **Lantanine®** is especially devised to modulate the proliferation of microbial flora.

CHEMICAL COMPOSITION

The leaves of golden alyssum contain primarily:

- phenolic acids: para-hydroxybenzoic acid, caffeic acid, salicylic acid and heteroside esters of caffeic acid (phenyl-propanoid glycosides: verbascosides and derivatives)
- flavonoids
- essential oils: α -phellandrene, dipentene, α -terpeneol, geraniol, cineole, linalol, eugenol, citral...
- sterols et triterpenoids: α -amyirin, β -sitosterol, lantadenes...

PROPERTIES OF THE PLANTS

Native to tropical America, *Lantana camara* is a bushy plant with a thorny stem. Its very thick foliage releases a menthol odor. Its small trumpet-shaped, variously colored flowers (yellow, orange and red) explain why it is called the « **Golden Alyssum** ».

In many tropical countries, the leaves of Golden Alyssum are consumed as a tea for their bechic action (antitussive, against coughs) and antibacterial effect. A medicinal plant listed in the Madagascar and Guyana Pharmacopoeias, Golden Alyssum (applied as a plaster) favors wound healing and fight against bacterial proliferation.

The golden alyssum concentrates in its leaves a large variety of molecules (hydroxycinnamic derivatives, salicylic acid, essential oils) and is particularly convenient to fight against bacterial proliferation.

Astringent, antiseptic, anti-bacterial, the leaves of golden alyssum are recommended in hair care or skin care devised to limit the bacterial proliferation.

SPECIFICATIONS

- Appearance : translucent to opalescent solution with possibly a slight precipitate
- Color : orange to dark brown
- Odor : characteristic
- pH 5.0 - 7.0
- Dry extract 2.0 % - 4.0 %
(12h at 105°C)
- Hydroxycinnamic derivatives content (Colorimetry method) $\geq 4\text{g/l}$ (*chlorogenic acid equivalent*)

ADDITIONAL ANALYSES

- Identification of triterpenic saponosides (TLC)..... presence
- Identification of flavonoids (TLC) caffeic acid, luteoline, quercetin
- Identification of essential oils (TLC)..... humulene, linalool
- Identification of salicylated derivatives (TLC)..... parahydroxybenzoic and salicylic acids
- Total polyphenols (Folin Ciocalteu method) 4,45 g/l *gallic acid equivalent*
- Flavonoids content (Spectrophotometry) 0,76 g/l *rutine equivalent*
- **Allergenic substances study:** a bibliographical study on *Lantana camara* revealed the potential presence in the plant of limonene, citral, geraniol and linalool. A theoretical calculation allows to establish that their content in Lantanine® was less than: 0.019% for d-limonene, 0.008% for citral, 0.015% for geraniol and 0.014% for linalool. The other allergenic substances as listed in the 7th amendment of the European Cosmetic Directive have not been found in the bibliography of the leaves of the plant. (*)
For more details, please confer to Lantanine® Technical file

SOLUBILITY (25°C)	- Water : soluble - Ethanol (50% v/v) : soluble - Propylene glycol : soluble - Vegetal/mineral oils : insoluble
BACTERIOLOGICAL CONTROLS	- Total aerobic mesophilic microorganisms ≤ 100 c.f.u./g - Yeasts and moulds ≤ 10 c.f.u./g - Pathogens absence
SAFETY TESTS	- In vitro ocular tolerance (HETCAM®) - 10 % slightly irritant - In vitro cutaneous tolerance (PREDISKIN®) - 10 % non irritant - In vivo cutaneous tolerance (Single Patch-Tests) - 10 % non irritant - Mutagenicity absence of mutagenic potential - Repeated Insulted Patch Test - 5 % non irritant / non sensitizing
APPLICATIONS	<p>Properties</p> <p>Convinced by the numerous pharmacopoeia which praise the antibacterial properties of <i>Lantana camara</i>, it is at Madagascar that researchers of Solabia Group have found this multicolor shrub, and they kept the leaves, real concentrates of molecules with antiseptic virtues to finalize Lantanine®, modulator of bacterial proliferation.</p> <p>Demonstration of efficacy (*)</p> <p>➤ Evaluation of the anti-lipase activity of Lantanine® ➤ Evaluation of the anti-microbial activity of Lantanine®: inhibitory effect on bacterial growth (<i>Propionibacterium acnes</i>, <i>Staphylococcus epidermidis</i>, <i>Corynebacterium xerosis</i>)</p> <p>Concentration to use</p> <p>In order to obtain an optimal result with Lantanine®, it is recommended to include it between 0.5 % and 5 %.</p> <p>Formulation</p> <ul style="list-style-type: none"> - purifying and re-equilibrating gel with Golden Alyssum from Madagascar - re-equilibrating shampoo with golden alyssum leaves - purifying and equilibrating deodorant with Lantanine® - purifying freshness gel for feet
PRESENTATION	Product : liquid Code : FA017KC – Can of 5 kg (to mention with your order) : FA017KE – Can of 20 kg
STORAGE	Lantanine® does not contain any preservatives. The product is stored at room temperature. Its shelf life is 3 years in standard conditions of storage. <i>Shelf life</i> : 3 years in closed original packaging.
INCI NAME	
USA	Butylene Glycol (and) Water (and) Lantana Camara Leaf Extract
EEC	Butylene glycol / Aqua / Lantana camara

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