

a fórmula



# LUMINECENSE

Vitamina C em destaque

Estudos



<http://aformulab.com.br/qrcode/luminafv01.pdf>



# LUMINECENSE

## Vitamina C em destaque

### DESCRÍÇÃO

Derivado do ácido ascórbico-anfifílico não iônico (2-gliceril-3-octil ascorbato), sintetizado através da introdução de um grupo octil e outro de gliceril nas posições C2 e C3 na estrutura de ácido ascórbico, ocasionado os efeitos fisiológicos na pele.

### MECANISMO DE AÇÃO

**Luminecense** apresenta uma potente capacidade umectante e hidratante ao contrário dos outros derivados de ácido ascórbico que ressecam a pele. Além disso, a molécula apresenta ácido caprílico, ácido de cadeia linear com 8 átomos de carbono que apresenta atividade antibacteriana. O **Luminecense** inibe a melanogênese em melanócitos B16 de forma similar a hidroquinona e superior ao arbutin em baixas concentrações, sem causar irritações, facilitando sua capacidade de atravessamento da pele, atuando na proliferação de fibroblastos.

### INDICAÇÕES

- ✓ Antioxidante, anti-inflamatório (melhora aspecto da acne);
- ✓ Elevar a umectação e hidratação;
- ✓ Ativador de fibroblastos, antirugas;
- ✓ Despigmentante.

### DOSE USUAL

Recomendação tópica de 0,5 a 10% de **Luminecense**.

### SUGESTÕES DE FÓRMULAS

#### WHITE COMPLEX CLEAR

Luminecense .....	8%
DNA Ecopur .....	0,5%
Vitamina E.....	0,5%
Alfa arbutin.....	1%
Brightlette .....	2%
BB Blur Qsp.....	30g

**Modo de Uso:** aplicar de 0,5 a 10% à noite, seguido de FPS durante o dia.

#### ACNE-FREE

Luminecense.....	5%
Clindamicina.....	1%
Niacinamida PC .....	3%
Bio blanc .....	1%
Gel extra seco Qsp.....	30 g

**Modo de Uso:** aplicar de 0,5 a 10% à noite, seguido de FPS durante o dia.

### PRINCIPAIS REFERÊNCIAS

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## ESTUDOS CLÍNICOS

### A new nonionic ascorbic-acid derivative, "2-glyceryl-3-octyl ascorbate"

In cosmetic products, ascorbic-acid derivatives are widely used, because of the instability of ascorbic acid (AsA) (called Vitamin C as its alias). As a new nonionic and amphiphilic ascorbic-acid derivative, "2-glyceryl-3-octyl ascorbate" (LumineCense), which is synthesized by introducing an octyl and a glyceryl groups into ascorbic-acid structure, is recently developed. Due to its unique chemical structure, in addition to the effects of AsA, LumineCense is expected to have a humectant effect derived from glycerin and an anti-bacterial property derived from octanol, and also is highly likely to have a fibroblast activation ability, and a melanogenesis-suppressing and skin-pore and wrinkle improving effects. LumineCense safety tests, which include a human skin-sensitivity test [repeat insult patch test (RIPT)], ocular irritation test [bovine corneal opacity and permeability (BCOP) assay], genetic toxicity (Ames test), and clinical human-skin patch test, have been performed, confirming the safety of LumineCense.

### L-ascorbic acid 2-phosphate stimulates collagen accumulation, cell proliferation, and formation of a three-dimensional tissuelike substance by skin fibroblasts

Proliferation of human skin fibroblasts was stimulated significantly by the presence of L-ascorbic acid 2-phosphate (Asc 2-P). The presence of Asc 2-P (0.1-1.0 mM) in the culture medium for 3 weeks enhanced the relative rate of collagen synthesis to total protein synthesis 2-fold as well as cell growth 4-fold. Coexistence of L-azetidine 2-carboxylic acid (AzC), an inhibitor of collagen synthesis, attenuated both effects of Asc 2-P in a dose-dependent manner. Supplementation of the medium with Asc 2-P also accelerated procollagen processing to collagen and deposition of collagen in the cell layer. Among the acidic glycosaminoglycans (GAG), another major component of extracellular matrix (ECM), deposition of sulfated forms was increased by the additive. Electron microscopic observations showed multilayered, rough endoplasmic reticulum-rich cells surrounded by dense ECM. These results indicate that Asc 2-P is useful in culture systems as a long-acting vitamin C derivative and also that it promotes reorganization of a three-dimensional tissuelike substance from skin fibroblasts in culture by stimulating collagen accumulation in the fibroblasts.

## REFERÊNCIAS

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