

CYTOBIOL™ IRIS A²

Goodbye to skin imperfections





Acne is the result of an excess of sebum and blemishes. Problem skin affects almost all teenagers and can persist into adulthood. Adult acne affects one in five women today. The consequences of this condition on self-esteem can be severe, not to mention potential after-effects such as scarring and post-inflammatory disorders.

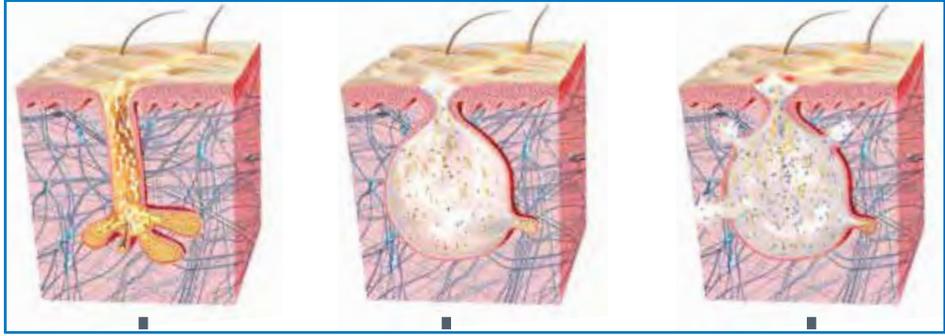
A lack of hygiene is not the cause of acne and simple cleansing of the skin will not prevent breakouts. A targeted solution is necessary that will both treat blemishes and reduce sebum production to ensure the skin remains shine-free.

Designed to fight the causes of oily skin, CYTOBIOL™ IRIS A² is a synergistic blend of Iris extract, vitamin A, and zinc that has been clinically shown to **purify the skin, minimize pores and reduce skin imperfections.**

CYTOBIOL™ IRIS A²

A 3-IN-1 SKIN REFINER

When sebum, produced in excess, clogs the pores of the skin, blemishes and signs of acne appear.



Cause 1

Overproduction of oil by the skin's sebaceous glands, called seborrhea, leads to an enlarged sebaceous canal. The surface of the skin takes on a greasy and shiny appearance and the pores are visibly dilated.

Cause 2

Hyperkeratinization leads to **formation of a plug** which blocks the follicle. As a result, sebum and dead cells accumulate underneath the skin creating blackheads and whiteheads.

Cause 3

Deprived of oxygen, anaerobic bacteria proliferate leading to **inflammation and formation of red bumps and pimples**. These lesions can ultimately lead to scarring and post-inflammatory pigmentation.

It is possible to prevent and treat blemishes and comedones using a purifying active that first prevents pores from becoming blocked and then limits inflammation caused by the rapid growth of bacteria.

PURIFICATION & REFINEMENT

Clears blemishes

The **comedolytic effect** of CYTOBIOL™ IRIS A² was assessed on a panel of 17 women aged 20 to 44 who suffer from oily, combination & acne-prone skin. After 28 days of facial applications of an emulsion containing 5% CYTOBIOL™ IRIS A², dermatologist concludes that **both retentional and inflammatory lesions are clearly reduced**.



➤ CYTOBIOL™ IRIS A² fights blemishes and helps skin stay clean and healthy.

Purifies - Visiopor® technique

The principal bacteria linked to the acne skin condition, *Propionibacterium acnes*, lives on fatty acids secreted by sebaceous glands. Bacteria damage the cells of the follicle and the accumulation of metabolic by products leads to inflammation.

➤ CYTOBIOL™ IRIS A² stops bacteria from reproducing with an activity that is shown to be *P. acnes* specific (*in vitro* test).

The **purifying activity** of CYTOBIOL™ IRIS A² was confirmed *in vivo*. Visiopor® technique allows for the visualization and quantification of the number of bacteria infected pores (orange spots).



➤ CYTOBIOL™ IRIS A² significantly reduces the number of bacteria colonized pores. **-20% of colonized pores**

Refines pores - Visioface® technique

Excess production of sebum over time increases pore size, giving the skin a heterogeneous appearance. The aspect of skin pores, before and after treatment with CYTOBIOL™ IRIS A², was evaluated using high-resolution digital photography.



➤ The surface and number of dilated pores is significantly reduced. Pores are tightened, giving the skin a smoother and younger appearance. **-17% of dilated pores**

Blocking proliferation of *P. acnes* stops the development of inflammatory lesions
Pores are cleaner
Pores are less visible and the skin texture is refined

VISIBLE RESULTS

Fights imperfections and reduces shine

Dermatologist confirmed the excellent results and visible efficacy of the formulation containing CYTOBIOL™ IRIS A². The appearance of the skin is healthier with a refined texture and a more matte and uniform complexion.

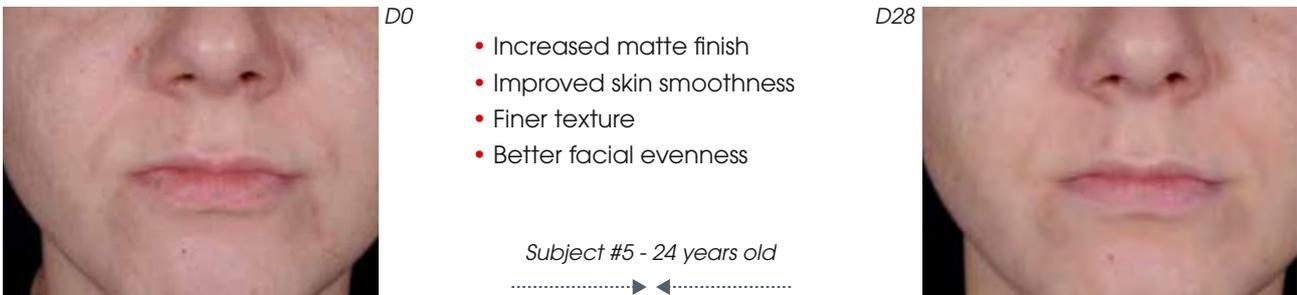
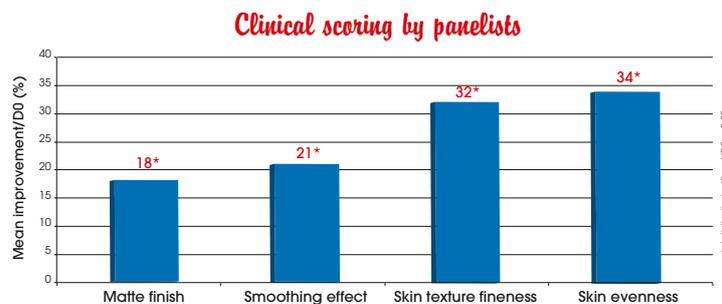


◉ Pores are less visible and the skin is more matte.

Mean dermatological scoring:
+23% of matte finish

Improves overall complexion

Self-evaluation by the panel confirmed a significant improvement in the condition of the skin.

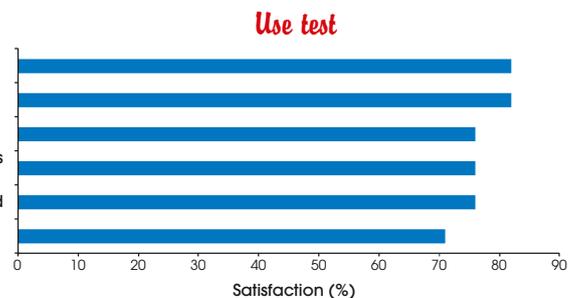


Consumers perception

The use test confirmed the visible efficacy of the formula containing CYTOBIOL™ IRIS A².

The panelists found a significant improvement in the appearance of their skin.

- My skin is cleaner
- My skin is less greasy
- My skin is less shiny
- The cream reduces the excess of sebum
- Skin imperfection are reduced
- The skin texture is refined



◉ Volunteers confirmed the visible reduction of skin blemishes and the pore refining efficacy of CYTOBIOL™ IRIS A².

(The skin presents an improved appearance with a matte and smooth finish. Imperfections are erased.)



The targeted activity of CYTOBIOL™ IRIS A² limits the development of problem skin symptoms. It also tightens dilated pores and reduces shine associated with oily and combination skin.

CYTOBIOL™ IRIS A²

is an efficient active for a uniform, matte, poreless and blemish-free complexion.

Claims

- Anti-imperfections
- Purifies
- Reduces skin shine
- Fights existing blemishes
- Reduces appearance of pores
- Improves skin texture

Applications

Skin care and make-up products:

- Acne-prone skins
- Oily and combination skins
- Pore refining treatments
- Mattifying products
- BB, CC... creams
- Skin perfectors

Use level

- 3 to 5%

• INCI: Propanediol (and) Water (and) Alcohol (and) Iris Florentina Root Extract (and) Zinc sulfate (and) Retinyl Palmitate

Listed on IECIC 2003 (Inventory of Existing Cosmetic Ingredients in China)

- Appearance: liquid
- To be added to the aqueous phase
- Preservative-free

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GATTEFOSSÉ is an independent, multinational company headquartered in France which creates, manufactures and distributes specialty products used as ingredients by the cosmetic and pharmaceutical industries. Present in 60 countries worldwide, GATTEFOSSÉ enjoys a strong know-how and position in lipochemistry, biology and extraction from natural sources.

GATTEFOSSÉ offers the cosmetic industry a variety of high performance products classified as:

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- **Traditional plant extracts**
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