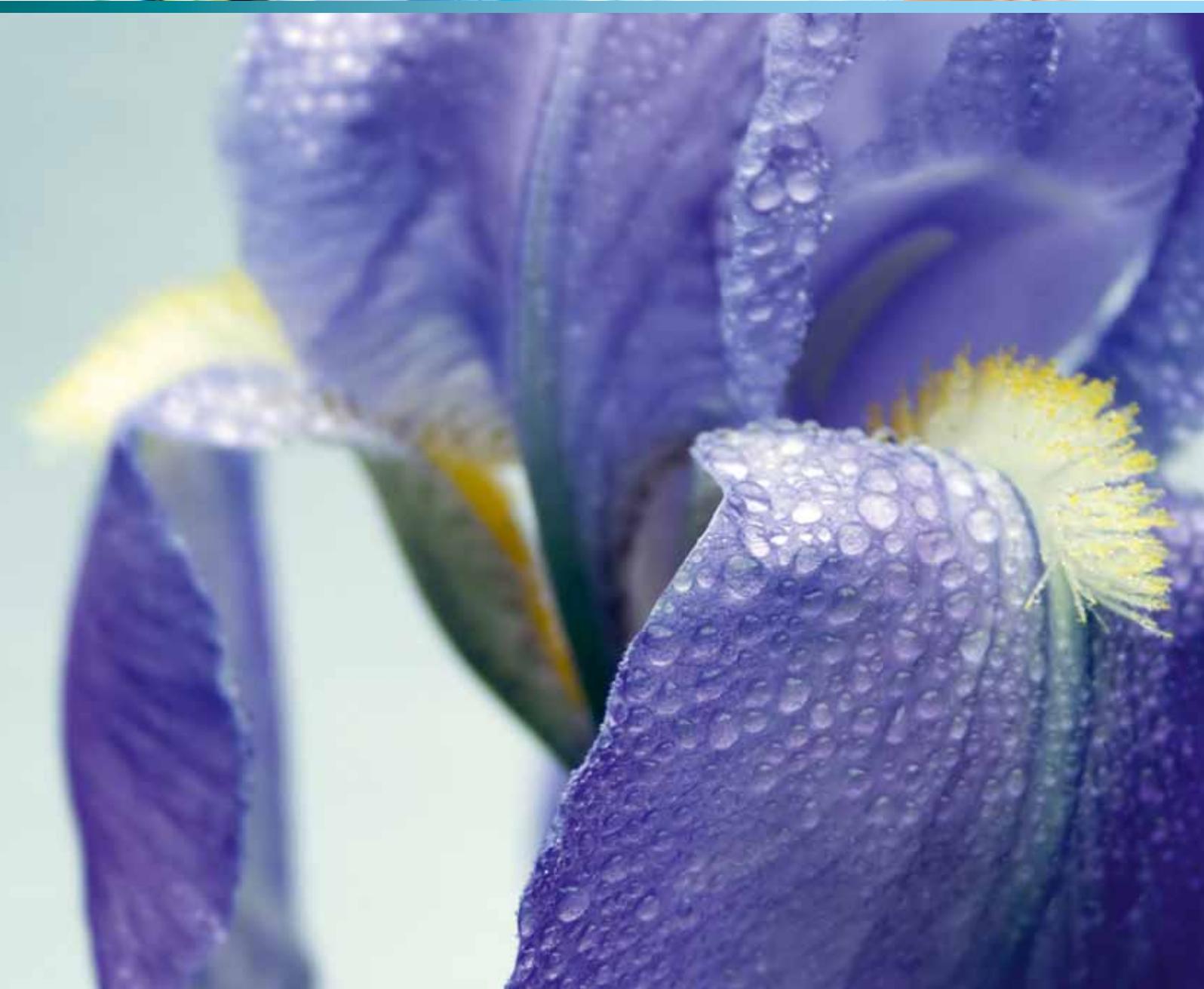


CYTOBIOL™ IRIS A²

Targeting acne-prone skin



Acne is one of the most frustrating cutaneous disorders, which besides physical signs also induces emotional distress.

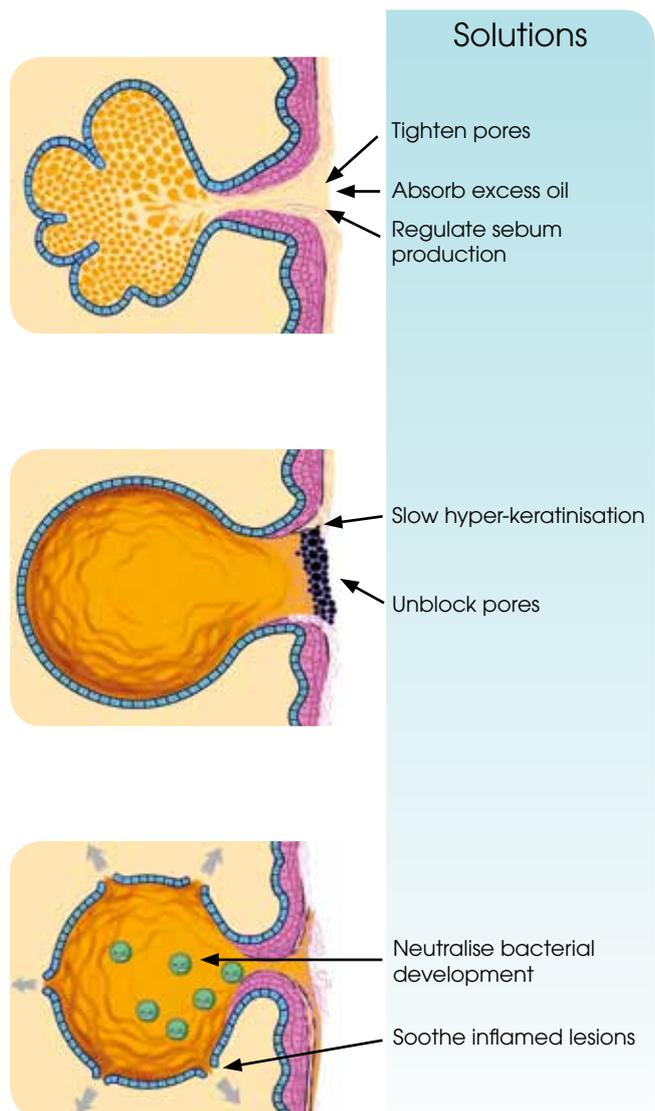
Acne, a condition in three steps

Acne is an inflammatory condition of the pilosebaceous follicle where hairs are formed and where the sebaceous gland deposits its contents. This follicle is the site of **three events** that occur one after the other: **hyperseborrhoea**, **keratinisation** of the pilosebaceous duct and **inflammation** of the follicle.

Hyperseborrhea is always present in acne-prone skin. It depends on the secretion of hormones, particularly androgens. Free testosterone is transformed into active dihydrotestosterone (DHT) under the influence of the enzyme **5-alpha-reductase**. This hormone increases both the size of the sebaceous glands and their sebum production.

The second factor is the keratinisation of the pilosebaceous duct. The duct gradually fills with sebum and dead cells until it is completely blocked. This is how **comedones**, black heads and white heads, are formed.

Finally, bacteria (such as *Corynebacter acnes*) at the bottom of the duct profit from the anaerobic conditions thus created and proliferate. They break down the accumulated sebum, freeing the irritating fatty acids that alter the wall of the duct and trigger the **inflammatory process**. The comedones then turn into inflamed papules, leading to redness and irritation.



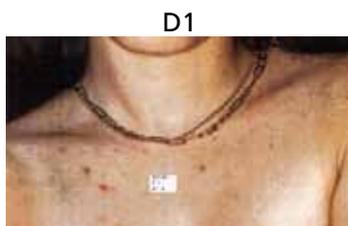
Cytobiol™ Iris A² is an active ingredient composed of Iris extract, vitamin A and Zinc salt. It takes its strength from the combined effects of the individual constituents. The properties of each ingredient make it possible to **attack the symptoms of acne vulgaris**, be it the common adolescent form or the adult form.

Three trump cards in one, for a perfect skin

- **Extract of Iris.** Iris is used for its anti-inflammatory, astringent and decongestant properties. The specific extraction process makes it possible to extract the active part of the rhizomes, particularly the glucosides, whilst also guaranteeing perfect reproducibility.
- **Zinc salt** is well-known for its antiseptic properties. For this reason, it is commonly used in dermatology, particularly on skin with a tendency to develop acne. In addition, thanks to its inhibitory action on **5-alpha-reductase**, zinc is also an efficient seboregulator.
- **Vitamin A** is the final ingredient in Cytobiol™ Iris A². At a dose of 200 international units per ml, vitamin A is a growth factor that favours cell multiplication. It is also a **tissue regenerator** and protector of the epidermis. Finally, vitamin A is recommended for oily skin as it **regulates seborrhoea** by inhibiting the synthesis of lipids.

Clinical evaluation on acne-prone skin

Preserved version Cytobiol™ Iris



A trio of active products for young skins

Cytobiol™ Iris A² is designed to be incorporated into cosmetic products that have a dual purpose. Firstly, it will help prevent the appearance of the classic disorders associated with skin with abnormally high sebum content.

Secondly, it will improve the condition of acne-tendency skins by limiting the manifestations associated with an imbalance in the skin flora and lipid metabolism.

Used at 3 to 6%, Cytobiol™ Iris A² can be incorporated into formulations specifically designed as efficient acne-preventive treatments for young people.

It can also be used in rebalancing formulations that aim to eliminate minor imperfections in adults, or in daily cleaning and purifying products that help maintain **a clean, fresh skin.**

CYTOBIOL™ IRIS A² (code 5829)

INCI	Propanediol (and) Water (and) Alcohol (and) Iris Florentina root extract (and) Zinc sulfate (and) Retinyl palmitate <i>Listed in IECIC (Inventory of Existing Cosmetic Ingredients in China) 2003</i>
Preservative-free	

WORLDWIDE LOCATIONS



REGIONAL AFFILIATES

CANADA

Gattefossé Canada, Inc.
170 Attwell Drive, Suite 580
Toronto, ONTARIO
M9W 5Z5
Tel. +1 416 243 5019
Fax +1 416 243 8628

CHINA

Gattefossé China Trading Co., Ltd
Room 302, Building N° 6, Lane 289
Bisheng Road
Zhangjiang Hi-Tech Park
201204 SHANGHAI P.R. CHINA
Tel. +86 215 895 8010 601
Fax +86 215 895 8015

FRANCE

Gattefossé France
5 rue Montesquieu
F-92018 NANTERRE Cedex
Tel. +33 1 41 47 19 00
Fax +33 1 41 47 19 29

GERMANY

Gattefossé (Deutschland) GmbH
Freiburger Strasse 19
D-79189 BAD KROZINGEN
Tel. +49 7 63 39 25 880
Fax +49 763 39 25 88 77

INDIA

Gattefossé India Pvt Ltd
2 & 3, Diamond Deck, Lane 3,
Kolekalyan, Sunder Nagar, CST Road
Santacruz(E), MUMBAI-400098
Tel +91 22 2665 6031/32/33
Fax +91 22 2665 6033

ITALY

Gattefossé Italia s.r.l.
Via Durando, 38
I-20158 MILANO
Tel. +39 2 49 54 29 69
Fax +39 2 49 54 29 50

SPAIN

Gattefossé España, s.a.
• Av. Diagonal 460 6° A
E-08006 BARCELONA
Tel. +34 9 34 16 05 20
Fax +34 9 34 15 35 46

Gattefossé España, s.a.

• C/Padilla, 73, 1° B
E-28006 MADRID
Tel. +34 9 14 02 13 11/16 12
Fax +34 9 14 02 00 82

SWITZERLAND

Gattefossé AG
Haldenstrasse 11
CH-6006 LUZERN
Tel. +41 4 14 18 40 44
Fax +41 4 14 18 40 59

UNITED KINGDOM

Gattefossé (UK) Limited
Arc House, Terrace Road South
Binfield, Bracknell,
BERKSHIRE RG42 4PZ
Tel. +44 13 44 86 18 00
Fax +44 13 44 45 14 00

U.S.A.

Gattefossé Corporation
Plaza I, 115 West Century Road,
Suite 340, Paramus
07652 NEW JERSEY
Tel. +1 201 265 4800
Fax +1 201 265 4853

CORPORATE HEADQUARTERS

GATTEFOSSÉ: 36 chemin de Genas - BP 603 - F-69804 SAINT-PRIEST Cedex - FRANCE
Tel +33 4 72 22 98 00 - Fax +33 4 78 90 45 67
infocos@gattefossé.com - www.gattefossé.com

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:

- **Bases and Additives:** emulsifiers, coemulsifiers, emollients, dispersers, solubilizers, thickeners...
- **Traditional plant extracts**
- **Substantiated active ingredients** from vegetable, mineral and marine origins.

