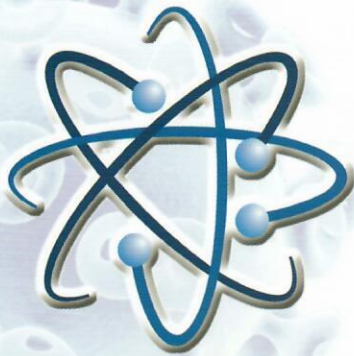




**PRODUCT LINE**  
**FOR INFECTOLOGY PRACTICE**





# catalysis

## Committed to Health

Catalysis, S.L. was born as a private and independent company that dedicates its efforts to research and the development of products in the pharmaceutical, cosmetic, and dietary fields.

### OUR MAIN ACTIVITY IS RESEARCH



A team of scientists works at the search of new remedies to relieve the suffering caused by widespread diseases such as **psoriasis, diabetes, asthma, osteoporosis, arthritis, genital and oral herpes, immunodepression (AIDS), cancer, tuberculosis, hepatitis, etc.**

The aim of our research is to discover treatments without the use of aggressive medicines that, all too often, produce terrible side effects.

Our products are harmless and based on the latest discoveries of the beneficial effects that **ANTIOXIDANTS** have on **FREE RADICALS** in our organism as well as on the stimulation of the body's immune system.

Manufactured by pharmaceutical laboratories equipped with the most advanced technologies, our products undergo the most rigorous controls that the European Union imposes by law on all the manufacturers of pharmaceutical, cosmetic, and dietary products that operate within its frontiers.

### DISTRIBUTION THROUGHOUT THE WORLD

#### • Europe

Albania, Belarus, Croatia, Cyprus, Czech Republic, Estonia, France, Italy, Hungary, Latvia, Lithuania, Moldavia, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Turkey, United Kingdom, and Ukraine.

#### • America

Argentina, Bolivia, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, USA, and Venezuela.

#### • Africa

Algeria, Botswana, Egypt, Ghana, Ivory Coast, Kenya, Lesotho, Malawi, Nigeria, Sierra Leone, South Africa, and Tanzania.

#### • Middle East

Bahrain, Jordan, Kuwait, Lebanon, Qatar, Saudi Arabia, and United Arab Emirates (U.A.E.).

#### • Asia

Armenia, Azerbaijan, Bangladesh, China, Georgia, Indonesia, Japan, Kazakhstan, Kyrgyzstan, Malaysia, South Korea, Taiwan, Thailand, Turkmenistan, Uzbekistan, and Vietnam.



# Our secret?

## Molecular activation



In this mechanism, we have observed greater synergy between some antioxidants used that are capable of considerably increasing their overall antioxidant capacity.

Many factors can influence the ACTIVATION of all antioxidants.

Amongst the most important chemical factors are the molecular structure, the active functional groups, specific antioxidant catalysts, the molecular weight, the pH, double carbon bonds, their solubility coefficient, etc., as well as the antioxidant capacity of each molecule.

The duration and the intensity of MOLECULAR ACTIVATION are amongst the most influential and important physical factors.

Not all antioxidants require the same ACTIVATION time to reach their maximum antioxidant capacity. The most important parameter for the control of better performance is their optimization. Once their highest antioxidant capacity is at its most favourable peak, ACTIVATION must be suspended because, after that maximum peak, their antioxidant capacity normally starts to diminish gradually and progressively.

When there is a mixture of two or more antioxidants, the optimal ACTIVATION time is previously calculated for each preparation separately, and this fixed parameter is always respected.

**The biocatalytic process of MOLECULAR ACTIVATION considerably improves the biological activity and the biochemical reactivity of all antioxidant molecules.**

This method of MOLECULAR ACTIVATION is much more effective when applied to a far wider range of hydrosoluble and liposoluble molecules.

We know the answer to this ACTIVATION in numerous antioxidants of all kinds and also the mechanism by which the accumulated electrons are able to reduce the free radicals of oxidant molecules.

### Bioassay on rabbit cornea

Vilas P. et al. (1989): Antiviral activity of a D-glucosamine derivate against herpetic ulcers (HSV type 2) in rabbit cornea. *Acta ophthalmologica* 67:55-60.



Control of HSV-2 virus with non-activated glucosamine 4 days after viral infection



Control of HSV-2 virus with non-activated glucosamine 14 days after viral infection



Treatment of HSV-2 virus with activated glucosamine 4 days after viral infection



Treatment of HSV-2 virus with activated glucosamine 14 days after viral infection



Treatment of HSV-2 virus with acyclovir 4 days after viral infection



Treatment of HSV-2 virus with acyclovir 14 days after viral infection

**These results demonstrate that MOLECULAR ACTIVATION is essential and necessary to increase biological activity and obtain this way the greatest effectiveness in the treatment of diseases which directly or indirectly produce free radicals.**

# ASBRIP® | oral solution

helps you breathe better

**ASBRIP®** is a natural dietary supplement with antispasmodic, expectorant, and disinfectant properties of immediate effect.

**ASBRIP®** contains the following activated ingredients: eucalyptus (antiseptic), mint (antispasmodic), ascorbic acid (antiviral, antioxidant, and immune system booster), and malic acid (antiviral).

**ASBRIP®** is formulated to treat the most common respiratory diseases.

## How does ASBRIP® work?

Numerous studies have demonstrated the antibacterial and antifungal action of **eucalyptus oil**. Its antiseptic, disinfectant, and expectorant action has also been demonstrated, which means that it can be used in pathologies such as **asthma, bronchitis, laryngitis, pharyngitis, and rhinitis**.

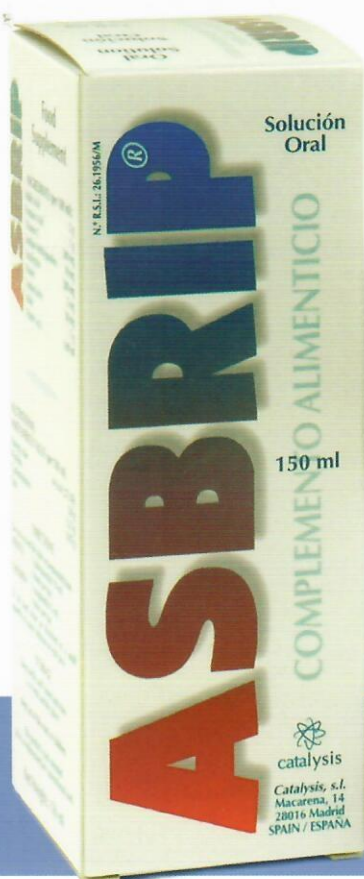
Microbiological studies have demonstrated its antibacterial activity against 22 different types of gram-positive cocci and rods and gram-negative rods, and 12 fungal strains: 9 filamentous fungi and 3 yeasts.

Several authors have demonstrated its high effectiveness inhibiting the growth of bacteria like **Pseudomonas aeruginosa** (opportunistic germ responsible for many infections in the respiratory tract and also for nasocomial infections).

Other studies demonstrate its antibacterial activity in germs such as **E.coli, Salmonella typhimurium, Staphylococcus aureus, and Candida albicans**.

The activated **mint extract** present in **ASBRIP®** offers relief from **inflammations of the mucous membrane of the respiratory tract and also of the buccal mucosa**. It functions, too, as a powerful antispasmodic agent.

Its **ascorbic acid** and **malic acid** content provides a powerful antibacterial, antiviral, and antioxidant action and stimulates the immune system. It is most beneficial in **reducing oxidative stress**, which contributes significantly to the inflammatory process of **bronchial asthma**.



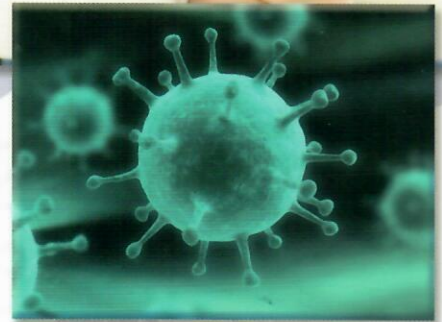
bottle of 150 ml of oral solution

relieves cough and decongests the respiratory tract

Mint, Malic Acid, Fumaric Acid, Eucalyptus, Ascorbic Acid, Lemon Juice, Honey.

- prevents nosocomial infections
- ideal adjuvant in therapies against influenza and seasonal respiratory distress

The antivirals, antioxidants, and anti-free radicals contained in the **ASBRIP®** formulation help correct the alterations in the respiratory tract caused by seasonal processes.



Influenza virus

- fast relief and without side effects

**Infectedology**

WORLDWIDE HEPATITIS  
PANDEMIC  
INFECTIONS  
CELLS  
CELL  
HOST  
CAUSED INFECTION  
CASES

FLU  
MAY  
FIRST  
PROTEINS  
VACCINES  
INFECT NUCLEIC

SPREAD  
PANDEMIC  
SMALLPOX  
HIGHLY

ANTIVIRALS  
PLAN WITHIN  
SINCE STATES  
COMMUNICABLE  
DIED HUMAN  
PROTEIN  
POPULATIONS  
LIFE IN  
MEMBRANE  
ORGANISMS GENOME  
REVERSE REPLICATION

FOUND SURFACE  
AFRICA  
WEASLES  
ACID  
TWO

THIS  
WAIN  
TYPES MOLECULES

# GLIZIGEN<sup>®</sup> | spray intimate gel cream

highly effective in the treatment  
of sexually transmitted infections (HPV and HSV)

## How does GLIZIGEN<sup>®</sup> work?

The active principle of **GLIZIGEN<sup>®</sup>** is **glycyrrhizinic acid**, which is highly effective for the topical treatment of infections by **human papillomavirus (HPV)** and **herpesvirus (HSV)**.

**Glycyrrhizinic acid** has been proposed as an antiviral against different viruses because it acts (in vitro and in vivo) preventing the replication of DNA and RNA viruses (**VZV, HIV, influenza A and B, herpes simplex virus HSV 1 and 2, hepatitis B and C**, amongst others).

Clinical studies carried out on patients with different types of herpetic infections and human papillomavirus infection demonstrate the efficacy of **GLIZIGEN<sup>®</sup>**.

### HPV

In all treated patients the following was observed:

- High effectiveness in viral negativization **in only 10 days, demonstrated by colposcopy and histopathology.**
- Excellent tolerance even with maximum doses used.
- No side effects.
- Greater therapeutic adherence.



### HSV

In all treated patients the following was observed:

- High accelerated effectiveness in the initial and recurrent phases of infection by genital herpes, **with results in 12 days.**
- Excellent analgesic and anti-ulcerous effects from the first application.
- Excellent tolerance without irritation or side effects, even in pregnant women.
- Quick, easy, and hygienic application, which allows better adherence to the treatment.

In some countries,  
**GLIZIGEN<sup>®</sup>** is marketed under the name of  
**EPIGEN<sup>®</sup>** or **HERPIGEN<sup>®</sup>**.

30 ml and 60 ml **spray** with applicator  
5 ml **cream**  
250 ml **intimate gel**

excellent tolerance and no side effects

Activated Glycyrrhizinic Acid.

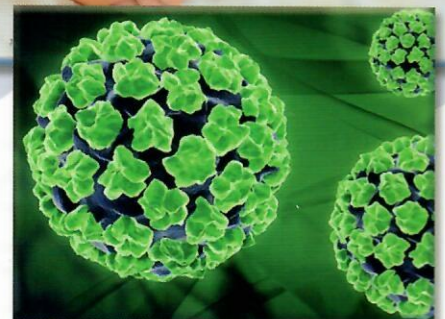
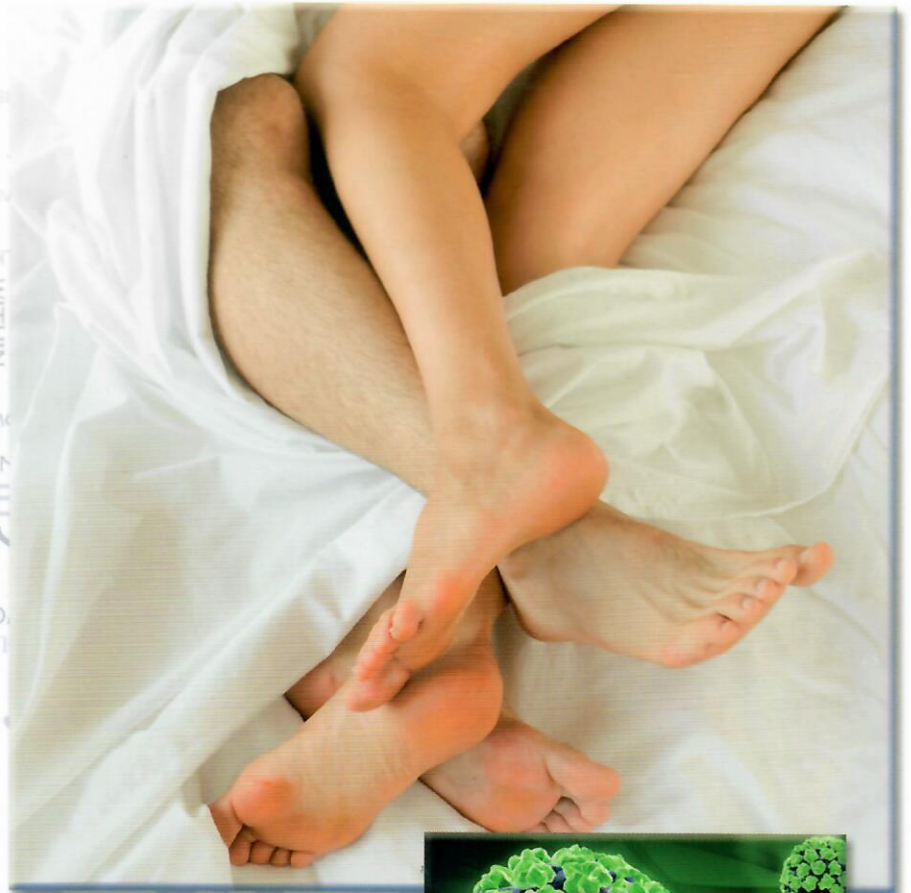
## ● no more infections by herpesvirus

**GLIZIGEN®** is an alternative treatment for people affected by HPV, herpes simplex labialis and genitalis (herpetic vulvovaginitis and herpetic balanoposthitis), recurrent herpes simplex, herpes zoster, condyloma acuminata, and verrucae vulgaris.

**GLIZIGEN®** is effective in the treatment of external genital warts, particularly if they have not been treated previously.

The tolerance of **GLIZIGEN®** is excellent, without irritation or side effects of any kind.

Application is very easy and totally compatible with any systemic medication the patient is taking.



Human papillomavirus

**GLIZIGEN®** is totally compatible with the application of other conventional therapies. It does not produce irritation and thanks to its composition based on natural ingredients, it does not have adverse side effects.

*Infectology*

# VIUSID®

sachets

oral solution

## immune system booster

**VIUSID®** is a dietary supplement specially designed to increase the immunological defences in all those processes that cause immunodeficiency.

It is for oral administration.

## How does VIUSID® work?

**VIUSID®** diminishes the replication of the virus at an early stage. It also prevents the virion emerging from its capsid and thus its penetration into the cells. These effects have been associated with a selective and dose-dependent inhibition of Kinase P phosphorylation.

**VIUSID®** is able to stimulate interferon-gamma production in T and B lymphocytes activating the same and this way enhances the immune system.

**VIUSID®** stimulates interleukin-12 production in macrophages, which facilitates the development of T helper lymphocytes in cell-mediated immune responses.

**VIUSID®** induces the production of interferons, which promotes the activation of macrophages and has, as a consequence, an increase in their phagocytic and destructive properties against microorganisms.

boxes with 21, and 90 sachets of 4 g each  
bottle of 100 ml of oral solution





## the first line of defence

Glucosamine, Malic Acid, Arginine, Glycine, Glycyrrhizinic Acid, Ascorbic Acid, Zinc Sulphate, Calcium Pantothenate, Pyridoxal, Folic Acid, Cyanocobalamin, Neohesperidine, Lemon, Mint, Honey.

- induces the production of interferons
- is an excellent hepatoprotector
- improves the patient's quality of life

**VIUSID®** may be administered together with conventional treatment to improve tolerance, reduce the multiple side effects of these therapies and this way improve the patient's quality of life.



HIV virus

- no side effects

All the active ingredients contained in the **VIUSID®** formulation are naturally found in our body and therefore, no side effects or toxicity have been reported after the administration of the product.

WIR  
VIRUS  
DISEASE  
PANDEMIC  
INFECTIONS  
CELLS  
CELL  
HOST  
CAUSED INFECTION  
CASES  
FOUND SURFACE  
AFRICA  
MEASLE  
ACID  
PANDEMIC  
SMALLPOX  
HIGHLY  
SPREAD  
PANDEMIC  
BACTERIOPHAGES  
VACCINES  
INFECT NUCLEIC  
CAUSED INFECTION  
CASES  
MAY  
FIRST  
PROTEINS  
CELLS  
CELL  
HOST  
CAUSED INFECTION  
CASES  
TYPES MOLECULES

*Infectology*

# VIUSID<sup>®</sup> | sachets oral solution

eliminates the negative effects of the free radicals  
that appear in all infectious processes

Oxidative stress contributes to the degradation of the immune system and also acts in viral replication in infected cells. This mechanism induces an oxidative burst in macrophages and neutrophils, decreasing the levels of inducible superoxide dismutase (anti-free radical enzyme). Where the increase of cytokines depends on oxidative stress, they can also increase this stress and cause programmed lymphocyte death.

**VIUSID<sup>®</sup>** contains activated specific antioxidants. It is designed to reduce free radicals and oxidative stress caused by the destructive effects of viruses. Antioxidants act as oxidative inhibitors, reducing oxidative stress, as well as blocking the degradation of the immune system and viral replication.

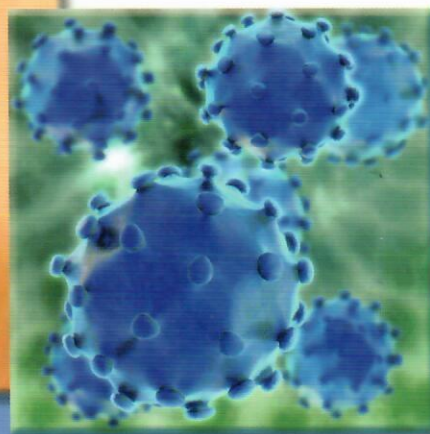
The **ANTIVIRALS**, **ANTIOXIDANTS**, and **ANTI-FREE RADICALS** contained in the **VIUSID<sup>®</sup>** formulation boost the defences of the immune system, strengthen the organism, and help restore the balance needed to stay healthy.

## ANTIVIRAL Properties

Glycyrrhizinic acid, present in **VIUSID<sup>®</sup>**, has been proposed as an antiviral against different viruses because it acts (in vitro and in vivo) preventing the replication of both DNA and RNA viruses (**herpesvirus, HIV, influenza A and B, hepatitis B and C, SARS coronavirus, Epstein-Barr virus, dengue, malaria**, etc., amongst others).

## ANTIBACTERIAL Properties

The antibacterial power of **VIUSID<sup>®</sup>** has been demonstrated in **Streptococcus, Haemophilus, Helicobacter, Klebsiella**, and others, as glycyrrhizinic acid is capable of inhibiting the bacterial arylamine N-acetyltransferase enzyme.



Hepatitis virus

reduces viral load

- fast and stable improvement of symptoms
- effective in preventing nosocomial infections
- excellent complement in antimalarial therapy

**VIUSID®** has proven to be highly effective in fighting the symptoms of malaria, which are produced due to the release of merozoites and the destruction of erythrocytes and the subsequent release of the hemoglobin that they contain.

Thanks to **VIUSID®**, the erythrocyte membrane gets stronger and becomes less susceptible to oxidative stress. Hence the prevalence of hemolytic anemia is lower.

**VIUSID®** has proven to be highly active in eliminating the symptoms of malaria (chills, fever, sweats, headache, nausea, vomiting, muscle and joint pain, anemia, and jaundice).



Plasmodium falciparum (malaria)

- increases appetite

VIRUS DISEASE  
FOUND SURFACE  
YEAR  
E.G. MEASLES  
AFRICA  
ACID  
PRODUCE TWO  
FLU  
MAY PANDEMIC  
FIRST CLASSIFICATION  
PROTEINS INFECTIONS  
VACCINES CELLS  
INFECT NUCLEIC CELL  
CAUSED INFECTION HOST  
CASES TYPES MOLECULES

INFECTOLOGY



PRODUCT LINE  
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Authorized Distributor



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