



## Next Generation Food Supplements

### Our Core-Business

**bioXtract** is a B to B/private label developer and manufacturer of innovative **food supplements** or **active ingredients** for pharmaceutical and food supplement industries for Belgian and export Markets.

These active ingredients are presented in the form of **formulated extracts** that can be used as ingredients for the manufacture of food supplements, but also as **ready-to-use finished dosage forms** in private label (capsules or tablets, in bulk or in blister and complete packaging under our customers' brand).

The elaborate extracts are **standardized** in natural active ingredients rigorously selected for their activities in **specific pathologies** (arthritis, metabolic syndrome, allergic rhinitis, IBS and gastrointestinal disorders, inflammatory diseases ...).

Based on his know-how in the field of quality systems, industrial scale-up and registration processes, **bioXtract** design food supplements or active formulated ingredients from the selection of raw materials until the industrial manufacture of finished products.

### Our Quality

The logistic/manufacture facility of **bioXtract** is **registered and approved by the AFSCA** (Federal Agency for the Food Chain Safety) for food supplement production under the Registration Number AER/NAM/004889 since 2006.

**bioXtract** disposes of a validated **Self-Inspection System** (SIS) which ensures the respect of requirements linked to the food safety.

**bioXtract** is **FSSC22000 certified**, which is a certification scheme for food safety systems including ISO 22000:2005, ISO 22002-1:2009 and additional FSSC 22000 requirements

**bioXtract** is **GMP certified** according to NSF/ANSI Standard 173, Section 8 dedicated to dietary supplements for both our laboratory and logistic/manufacture premises.

A global Quality Manual is available upon request for more complete information

### Our Products

**bioXtract** has acquired a particular know-how of over 10 years in the development and management of products based on the active ingredient "**curcumin**" and is the leader in Belgium for this asset, having developed several innovative and highly bioavailable curcumin formulations (patented).

Finished dosage form (capsules):

- **Arantal®** a remedy for chronic treatment of **osteoarthritis** and **inflammatory diseases**
- **Nasaler®** a natural remedy for the symptoms of **allergic rhinitis**, offering symptomatic relief with long term immunomodulating activity
- **Rifencin®** a natural remedy for the relief of gastrointestinal disorders like Irritable **Bowel Disease (IBD)** or **Irritable Bowel Syndrome (IBS)**

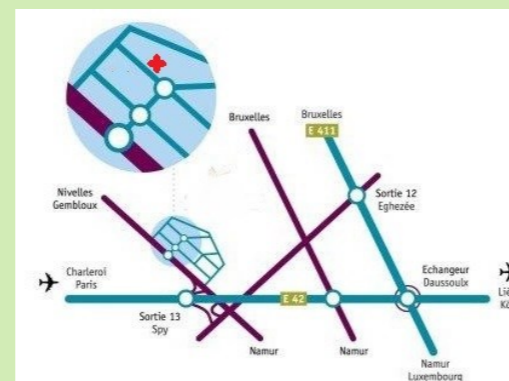
Bulk ingredient:

**Cursol®**, a pre-formulated powdered ingredient for the manufacture of food supplements with **anti-inflammatory actions**.

**bioXtract's** innovative range of dietary supplements also includes:

- **Regulid Plus** acting on the **weight stabilization** in yo-yo dieting syndrome as well as on blood HDL and triglyceride level management, acting as a natural treatment of the **metabolic syndrome**
- **Cognityl**, associating theobromin from cocoa and caffeine from tea for **concentration and mental energy**

Both are available in the form of bulk formulated ingredient or in the form of finished dosage forms.



BIOXTRACT SA  
Rue Guillaume Fouquet 30  
5032 Les Isnes  
BELGIUM  
Tel. +32 81 73 79 90  
Fax. +32 81 73 41 46  
info@bioxtract.com  
www.bioxtract.com



## NASALER®

## TOTAL CARE FOR ALLERGIC RHINITIS

### Innovative Formulation

- ✓ Bioavailable curcumin, quercetin and vitamin D for total care of allergic rhinitis
- ✓ Open-label clinical trial demonstrates improvement of all symptoms in less than 28 days in allergic patients
- ✓ For seasonal and non-seasonal allergies
- ✓ No side-effects, no drowsiness



# NASALER®

### The ideal Anti-inflammatory & Anti-histamine Combination

**Nasaler®** is an effective natural remedy for allergic rhinitis, offering relief of troublesome symptoms, and acting on the underlying inflammation, reducing the need for medical treatments.

The principal ingredients in **Nasaler®** are naturally occurring and safe for use. As a complement or an alternative to conventional medical treatments for allergic rhinitis, it is the first effective natural alternative of its kind.

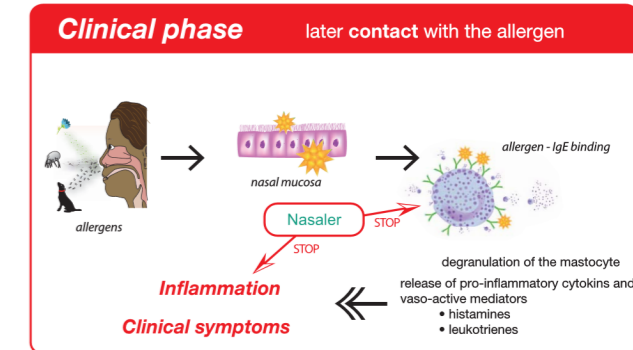
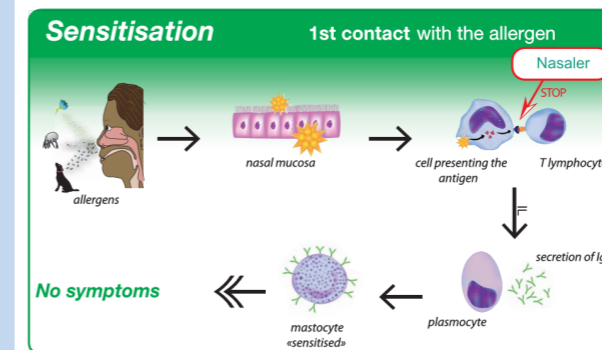
Taking **Nasaler®** long term will gradually increase the tolerance to allergens.

**Nasaler®** is a green softgel capsule of 1008 mg containing a highly bioavailable mixture of turmeric extract or **curcumin** (*Curcuma longa* L.) and natural **quercetin** from *Sophora japonica* L. (pagoda tree or Chinese scholar tree).

Each capsule contains 42 mg of curcumin and 65 mg quercetin which are reinforced by **Vitamin D**, necessary for healthy immune system.

The recommended dosage is :

- 2 capsules a day before a meal, with a large glass of water

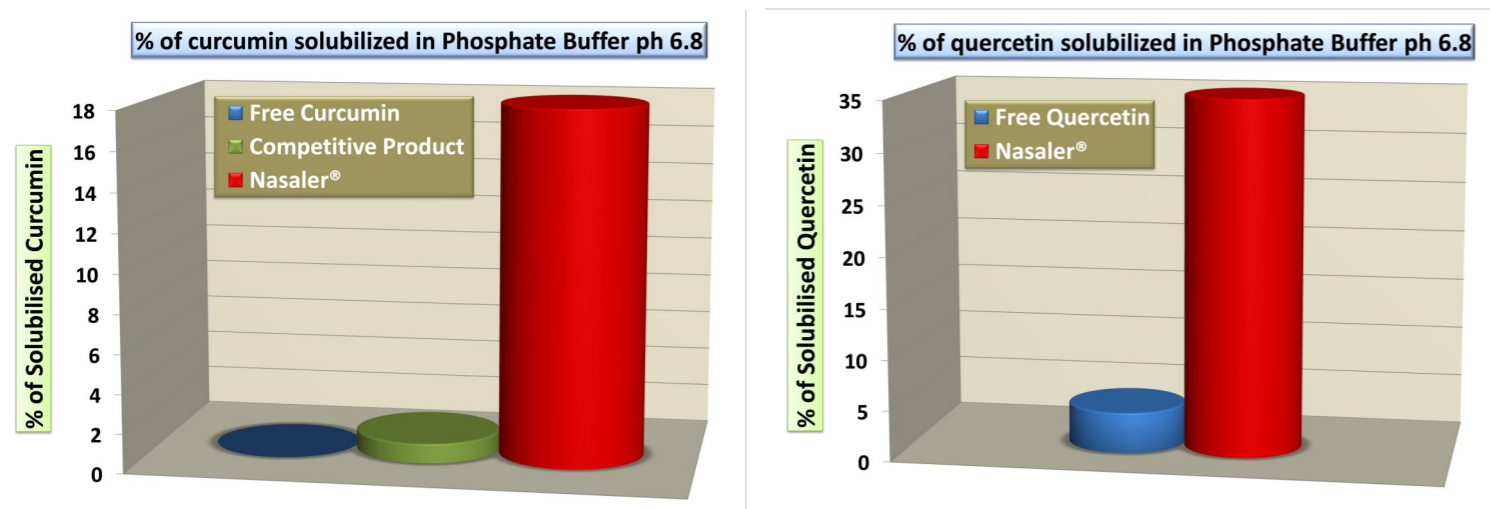


## Curcumin & Quercetin Solubility

Low bioavailability of poorly soluble drugs is a common problem in drug development and can have negative consequences on the biological activity. This is particularly the case with curcumin which is nearly insoluble in intestinal fluid, especially in duodenal conditions (where absorption occurs).

Thanks to its innovative formulation, **NASALER®** offers soluble curcumin, using safe and food-grade ingredients. In tests comparing **NASALER®** to free curcumin (curcumin 95%) and another branded curcumin product on the market (combination of curcumin and soy lecithin, claiming high solubility and bioavailability), **NASALER®** is **1800% more soluble** than the competitive product, at an equivalent daily dosage (2 tablets / capsules).

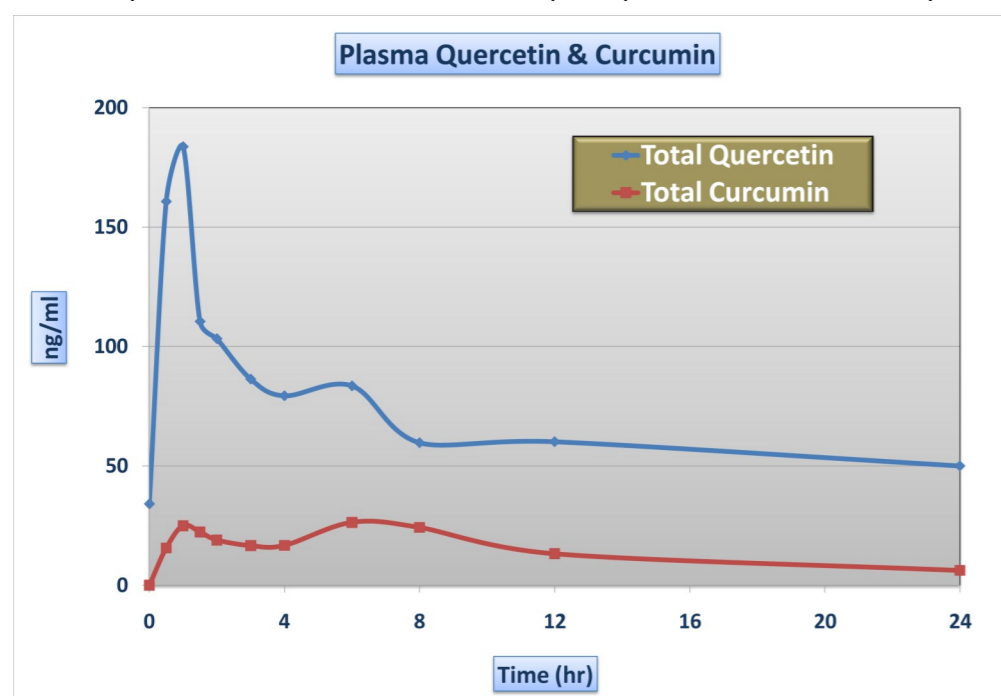
In the same study, the solubility of quercetin in two capsules of **NASALER®** was compared to an equivalent amount of free quercetin. It was found that the quercetin in **NASALER®** is 8.75 more soluble than free quercetin.



## Nasaler® Pharmacokinetics

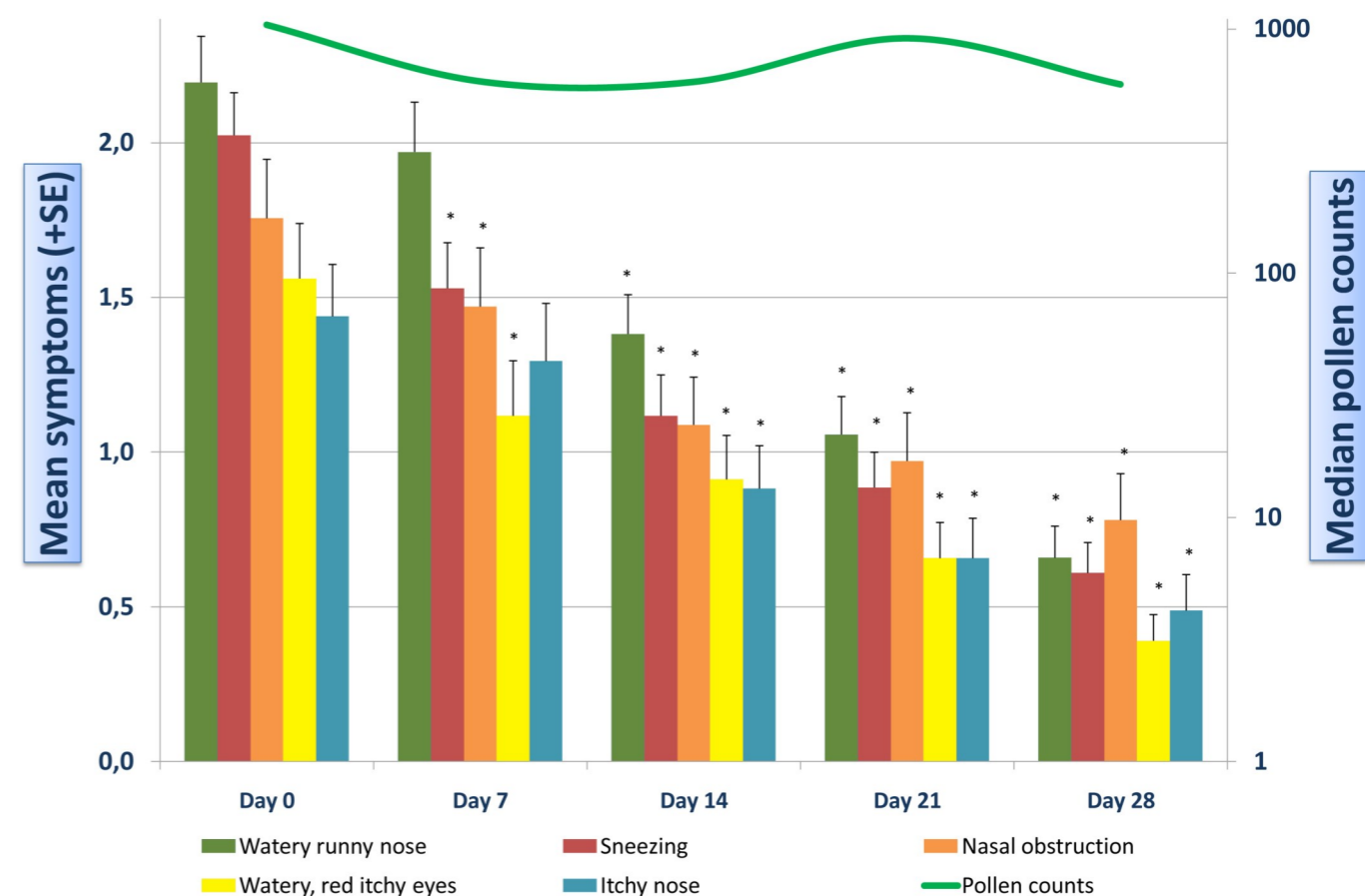
A Phase I pharmacokinetics study on **NASALER®** was run on a group of 12 healthy individuals, being orally administered 2 capsules of **NASALER®**. With 2 capsules, the mean of curcumin Cmax on 12 individuals was **36 ng/ml**, and the mean quercetin Cmax was **226 ng/ml**.

This formulation offers active plasma concentrations of active principals at a dose of two capsules daily.



## Nasaler® Clinical Use

An open label, double-dose, multi-centred group study was performed to evaluate the impact of **NASALER®** on the effects of allergic rhinitis in patients. The study was run on **28 days**, with **41 patients** (taking 2 to 4 capsules each morning). The effect of **NASALER®** was evaluated by measuring the following symptoms every 7 days: watery runny nose, itchy nose, sneezing, red itchy eyes, nasal obstruction as well as quality of life of the patients.



### NASALER® Efficacy:

- Significantly **decreases all symptoms** of allergic rhinitis
- Significantly **improves Quality of Life** of allergic patients
- Improvement noted **within 7 days**
- With **2 capsules a day**

Synergy of 3 natural active principals for total care and relief of allergic rhinitis.

Acting on the 3 major phases of allergic reaction:

#### Immediate reaction:

- Rhinorrhea
- Itching and Sneezing
- Red Eyes

#### Late reaction:

- Nasal Congestion (nasal mucosa oedema)

#### Chronic Phase:

- Nasal Congestion (nasal mucosa oedema)
- Nasal mucosa degradation and remodeling