



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 gastro-intestinal disorders like Irritable **Bowel Disease (IBD)** or **Irritable Bowel Syndrome (IBS)**

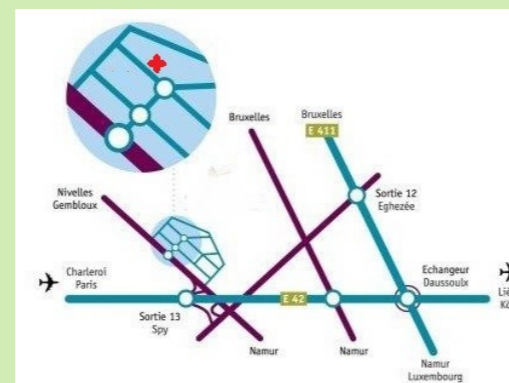
Bulk ingredient:

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.



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RIFENCIN®

ANTI-INFLAMMATORY & GASTRO-INTESTINAL PROTECTOR

Innovative Formulation

- ✓ Patented Proprietary Formulation of Highly Bioavailable Curcumin and Fennel Essential Oil
- ✓ Best source of Bioavailable Curcumin on the market
- ✓ Safety well-documented and suitable for Chronic Use
- ✓ Efficacy proven through a Double Blind, Multicentric, Placebo Controlled Clinical Trial on 120 patients suffering from IBS

RIFENCIN® an alternative therapy for IBS

RIFENCIN® is an innovative formulation combining two complementary drug substances: curcumin from a turmeric dry extract in a highly soluble form and sweet fennel essential oil.

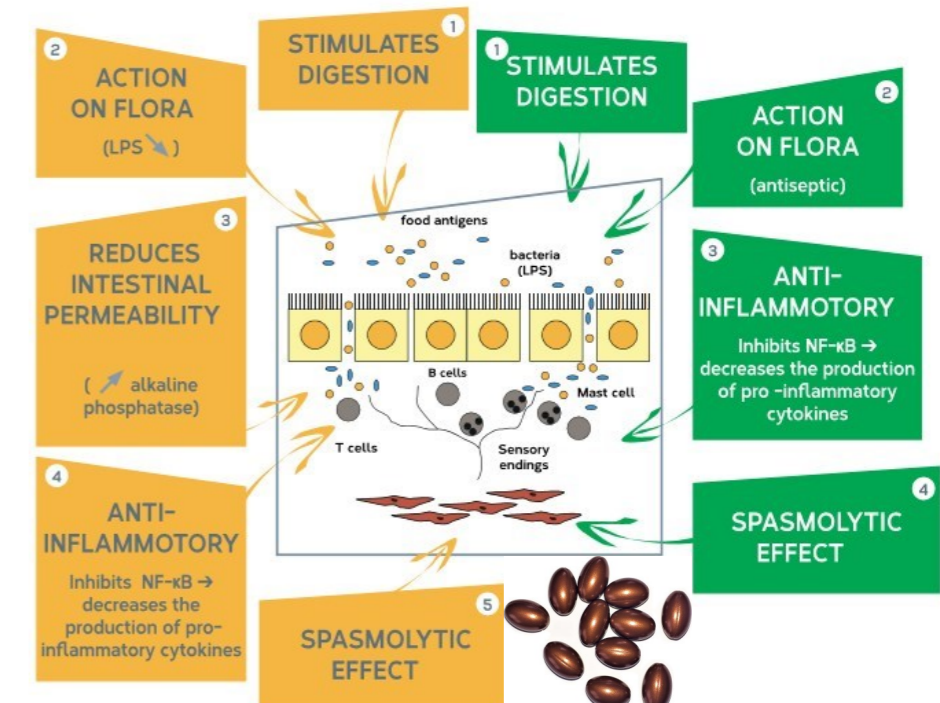
RIFENCIN® active principal's act on the symptoms of gastro-intestinal disorders by improving all the aspects of the quality of life of the patients, in particularly in the case of Irritable Bowel Disease (IBD) and Irritable Bowel Syndrome (IBS).

RIFENCIN® is a gelatin soft capsule of 920 mg containing turmeric rhizome dry extract (Curcuma longa L.) corresponding to 42 mg of curcumin and 25 mg of sweet fennel essential oil (Foeniculum vulgare Mill. in the form of oily gel formulation).

RIFENCIN® recommended dosage is 2 capsules twice a day before a meal for one month, then 2 capsules once a day.

bio- optimized turmeric extract standardized to 42 mg of **curcumin** + 25 mg of **fennel essential oil (trans-anethole)**

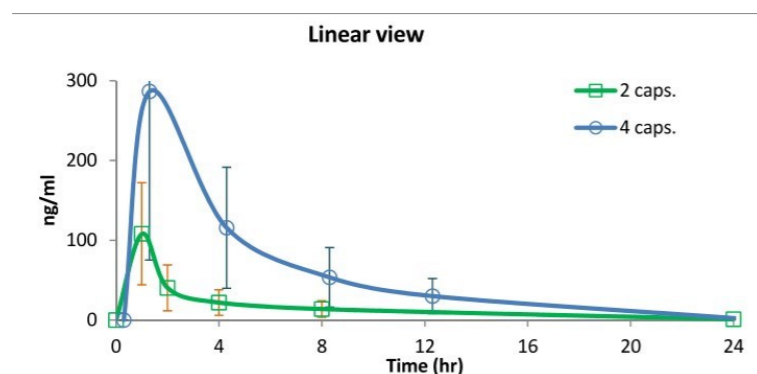
ACTION ON SYMPTOMS AND UNDERLYING CAUSES



RIFENCIN®

RIFENCIN® Toxicity Clinical Trial

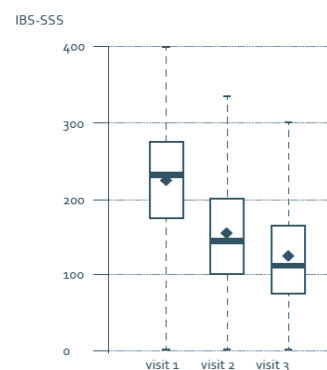
RIFENCIN® acute oral toxic trial in rats showed no particular effect and classified the product in the danger 5 category DL50 superior 5,000 mg/kg. A Phase I pharmacokinetics study on RIFENCIN® was run on 12 healthy individuals, each one being orally administered 2 or 4 capsules of RIFENCIN®.



RIFENCIN® Observational Clinical Study : Real Life on 253 patients

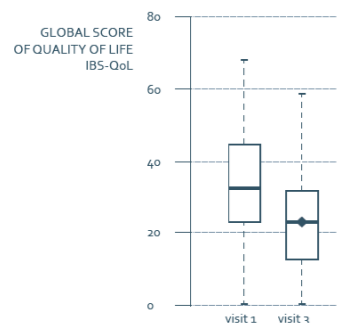
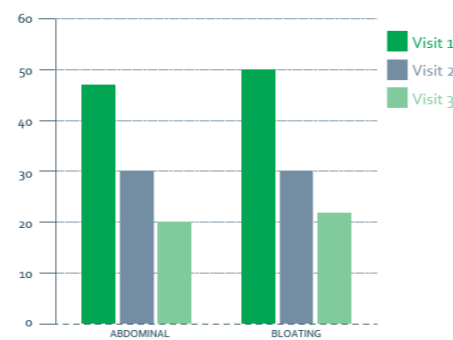
RIFENCIN® improves significantly the following parameters

- ✓ Faeces frequency decreased rapidly ($p < 0.0001$)
- ✓ Faeces aspect was significantly improved ($p < 0.0001$)
- ✓ The number of patients presenting blood in faeces was significantly decreased (-76%) (+40% de IBS-QoL, - 48% de IBS-SSS) ($p > 0.0001$)
- ✓ Absence from work decreased significantly with treatment
- ✓ The number of locations of pain significantly decreased as early as the 2nd visit ($p > 0.0001$) and still continued to fall at the 3rd visit ($p > 0.0001$)
- ✓ No adverse effect has been reported



(1) Significant decrease in IBS Symptoms Severity Score (IBS-SSS) ($p > 0.0001$)
- 45% of the severity score

(2) Significant decrease of IBS specific symptoms ($p > 0.0001$)
- 55% of abdominal pain at Visit 3
- 54% of bloating at Visit 3



(3) Significant improvement (33%) of the score of quality of life (IBS-QoL) ($p > 0.0001$)

RIFENCIN® randomized, double blind, multicentre, Placebo Controlled Clinical Trial on 120 patients suffering from IBS

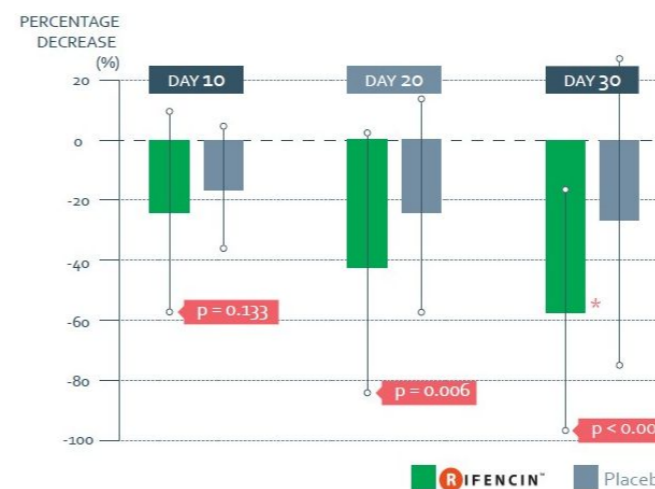
RIFENCIN® was significantly superior to placebo in reducing functional gastrointestinal symptoms.

A significantly higher number of patients in the RIFENCIN® group had symptom remission, compared to the placebo group.

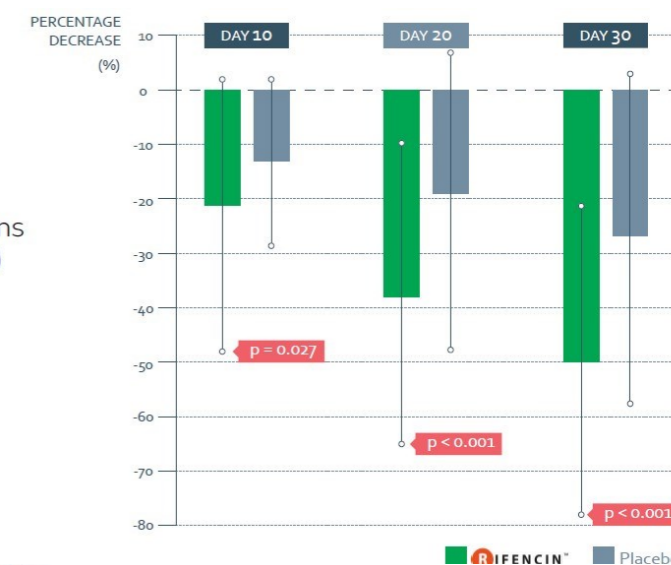
Symptoms improvement is significantly higher in RIFENCIN® group at each assessment Day (day 10, 20, 30).

RIFENCIN® improves all aspects of Quality of Life in patients with functional gastrointestinal disorders

RIFENCIN® has an excellent safety profile.



(2) Significantly greater decrease in abdominal pain (visual analogue scale pain)
*64% less pain compared to placebo



(1) Significantly greater decrease in IBS Symptoms Severity Score (IBS-SSS)

(3) Significant improvement in quality of life

