

algen[®]
NATURA

I'm
Superbotanical[®]



supreme nature

I'm Superbotanical®

Our botanicals from vertical farm.

Cultivated in Italy



The first food supplement with raw materials cultivated in vertical farm, manufactured and packed **in Italy**.

No contaminations



Residue free ingredients, **no herbicides, no fungicides, no pesticides** and free of heavy metal residues.

Emissions free



Our production facilities are completely powered by photovoltaic energy and work with **95% less water** than traditional cultivations.

More bioavailability



The high quality of botanicals allows us to use more parts of the plant, obtaining a better quantity and **bioavailability** of active principles.

“Super” Botanicals

We call them “Superbotanicals” because we know everything about them, starting from their genetic profile. They are grown in an environmental controlled vertical farm where we recreate the best conditions for each specific plant in order to obtain high quality and quantity of active ingredients.

Full Spectrum Extracts

We define “full spectrum” a plant extract containing its full range of active principles working together in synergy. The difference between a traditional botanical extract standardized for one single active ingredient and a full spectrum botanical is the capacity of the latter to have multiple beneficial effects and a higher bioavailability.



Turmeric

From India to Italy

The turmeric (*Curcuma Longa L.*) is one of the most common medicinal plants. It's been used for centuries in India and it is traditionally known for its beneficial effect on gastrointestinal tract, joint system and for its anti-inflammatory and antioxidant action. In the last few decades, a lot of studies underlined the action of turmeric active ingredients against cancer and neurodegenerative disorders.

Principal uses



joint pain



menstrual disorders



anti-inflammatory



antioxidant



Origin	ITALY
Residues free	YES
Nickel free	YES
Herbicides	NO
Pesticides	NO
Fungicides	NO
Full spectrum	YES

A stable phytocomplex has different benefits:

SYNERGIC ACTION

The presence of all the biologically active molecules of the plant allows to obtain an higher efficacy on different functions. Active ingredients act by enhancing their respective qualities.

REDUCED TOXICITY

Using the phytocomplex generally reduces the risk of addiction to the substances contained in it.

MULTIPLE ACTIONS

Turmeric phytocomplex has at the same time different actions like anti-inflammatory, anti-rheumatic, antioxidant and joint protection. Turmeric is also able to relieve menstrual pain thanks to the synergic action of curcumin with other flavonoids contained in its rhizome.

MORE BIOAVAILABILITY

Bioavailability refers to the extent and rate at which the active ingredient enters systemic circulation, thereby accessing the site of action.

The phytocomplex advantages

A 2010 study analyzed the permeability of curcumin and phytocomplex on 8 hours time duration in an intestinal tissue using as vehicle corn oil. This study showed that the **phytocomplex permeability rate was significantly higher** than the one of isolated curcumin alone: $19,2 \pm 0,909 \mu\text{g}/\text{cm}^2$ vs $12,18 \pm 0,428 \mu\text{g}/\text{cm}^2$.



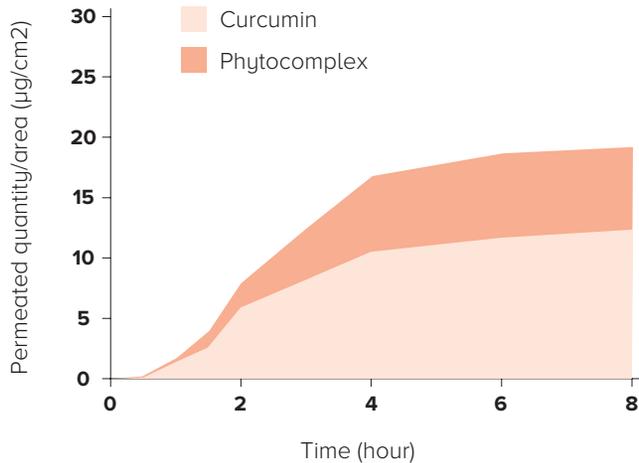
Phytocomplex
Turmeric
 $19,2 \pm 0,909 \mu\text{g}/\text{cm}^2$



Isolated
Curcumin
 $12,18 \pm 0,428 \mu\text{g}/\text{cm}^2$

This difference depends on the presence of volatile oils like **turmerone, atlantone e zingiberone** in the turmeric phytoextract.

This molecules associated to curcuminoids (curcumin, demethoxycurcumin, bisdemethoxycurcumin) and other molecules naturally found in turmeric, **help the high compound permeability** in the tissues compared to the single curcumin molecules, improving its bioavailability.



The association to liposomal curcumin

The full spectrum rhizome association to the liposomal curcumin, guarantees a high absorption of active ingredients.

The liposomal patented form of curcumin based on the Indena technology of phytosome, **improves the stability, availability and extract efficacy** of about **29 times**.

The phytosome allows an increase of the hydrolytic stability of curcumin thus protecting it from degradation.

sources*

Shishu*, Manjul Maheshwari (University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh 160014, India) Comparative bioavailability of curcumin, turmeric and Biocurcumin in traditional vehicles using non-everted rat intestinal sac model, Journal of Functional Foods 2 (2010) 60 – 65

Turmeric

Full spectrum turmeric associated with liposomal high bioavailability turmeric. It helps reducing inflammation, menstrual pain and to improve joint function.

cod: 3004

50 tablets of 550 mg each

vegan

lactose free

gluten free

residue free

nickel free



RECOMMENDED USE:

2 tablets daily.

SUPPLEMENT FACTS PER SERVING (2 TABLETS)

	QTY.
Full spectrum turmeric rhizome	400 mg
Phytosoma curcumin	200 mg
<hr/>	
Total curcuminoids	52 mg
Total flavonoids	2,4 mg



Ginger

Millenary tradition

Ginger (*zingiber officinalis*) is a perennial herbaceous plant belonging to the Zingiberaceae family. Used for over 2000 years for medical purposes, ginger represents one of the fundamentals of Ayurvedic and Chinese Traditional medicine, for the treatment of heart problems, food poisoning, diarrhea, rheumatism, nausea, inflammation, flu and gastritis. The drug is contained into the rhizome.

Principal uses



nausea



bloating



intestinal cramps



cardiovascular health

More than 400 active ingredients

Ginger rhizome has a very broad spectrum of active ingredients (it counts more than 400). Main active constituents are represented by **terpenes** and **phenols**.

Terpenes includes zingiberene, β -bisabolene, β -phellandrene and even eucalyptol (cineol) also found in different Cannabis strains.

The main phenolic compounds are gingerols (6-gingerol, 8-gingerol, 10-gingerol), paradols and shogaols. Zingiberene and bisabolene are the main responsible for ginger's typical smell while the spicy flavour is given by its volatile oils. Terpenes and phenols are also responsible for ginger's many pharmacological activities.

Terpene profile analysis:

Parameter	mg/Kg	Parameter	mg/Kg
α -zingiberene	13,6	β -zingiberene	80,2
β -bisabolene	1,1	Eucalyptol	35,1
β -phellandrene	52,9		

Phenolic profile analysis:

Parameter	mg/Kg	Parameter	mg/Kg
6-Gingerol	13.432	10-Gingerol	10.560
8-Gingerol	4.536	Total shogaols	11.468



Origin	ITALY
Residues free	YES
Nickel free	YES
Herbicides	NO
Pesticides	NO
Fungicides	NO
Gingerols	4%
Terpenes	0,02%

Nausea and Bloating

Clinical studies have shown that ginger has important carminative properties, it decreases the pressure on the esophageal sphincter, reduces intestinal cramps, prevents dyspepsia, flatulence and swelling.

These properties are mostly due to gingerols activity able to antagonize serotonin (5-HT3) gastric receptors against nausea and vomiting, in synergy with 6-shogaol.

Good for the heart

Both gingerols and shogaols have different biological activities in addition to their common anti-nausea properties. They are in fact powerful antioxidants against inflammatory processes involved in **cardiovascular** and **metabolic diseases**.

In particular, the review “Ginger: A complementary approach for management of cardiovascular diseases” sublined clinical studies that shows how the phytocomplex of ginger is effective in reducing the inflammation, which is the underlying condition of many cardiovascular diseases, working on the inhibition of several genes involved in the inflammatory response. In addition, the association of gingerols with shogaols seems to have an important role in **decreasing blood pressure** in hypertensive patients.

sources*

Nazanin Momeni Roudsari¹ | Naser-Aldin Lashgari¹ | Saeideh Montaz^{2,3,4} | Basil Roufogalis^{5,6} | Amir Hossein Abdolghaffari^{1,2,3,4} | Amirhossein Sahebkar^{7,8,9}
Ginger: A complementary approach for management of cardiovascular diseases

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Ginger

Full spectrum highly bioavailable ginger cultivated in Italy under a controlled environment. Highly indicated as anti-nausea, to help digestive functions and the body gases elimination.

cod: 3005

50 tablets of 1000 mg each

vegan

lactose free

gluten free

residue free

nickel free



RECOMMENDED USE:

2 tablets daily. In case of travel sickness, take 2 tablets half an hour before the departure.

SUPPLEMENT FACTS PER SERVING (2 TABLETS)

	QTY.
Ginger full spectrum	800 mg
of which gingerols	32 mg
of which terpens	0,16 mg



Saffron

The queen of spices

Saffron (*Crocus sativus* L.) is the most expensive spice in the world. It has been used since ancient times in Ayurvedic and oriental traditional medicine to promote sleep and as an antidepressant. Recent studies show its efficacy in preventing anxiety and depression thanks to its active ingredients, safranal and crocin and the kaempferol found into the flowers.

Principal uses



anxiety



stress



insomnia



depression



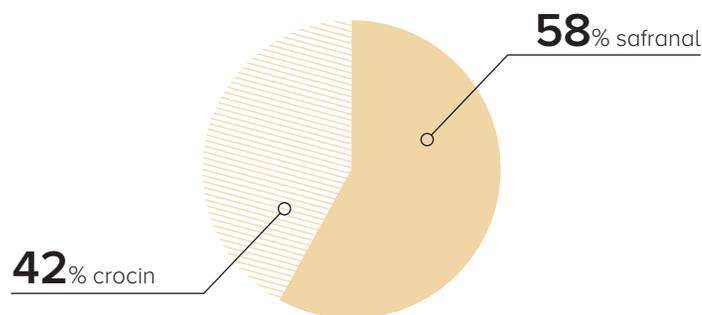
Superior technology

Thanks to our technology and to the high concentration of ingredients, we can use the whole plant (phytoextract) obtaining supplements which are easier to be absorbed by the body.

In particular, by using flowers and stigma into our saffron capsules, we have an **higher bioavailability** product compared to those on the market.

Harvest timings

We can define the specific harvest timing in order to choose the quantity ratio of safranal between crocin which allows us to obtain the desired mix **without using chemical substances** as it happens with traditional extracts.



The chart shows the ratio between safranal and crocin selected for our saffron supplement.

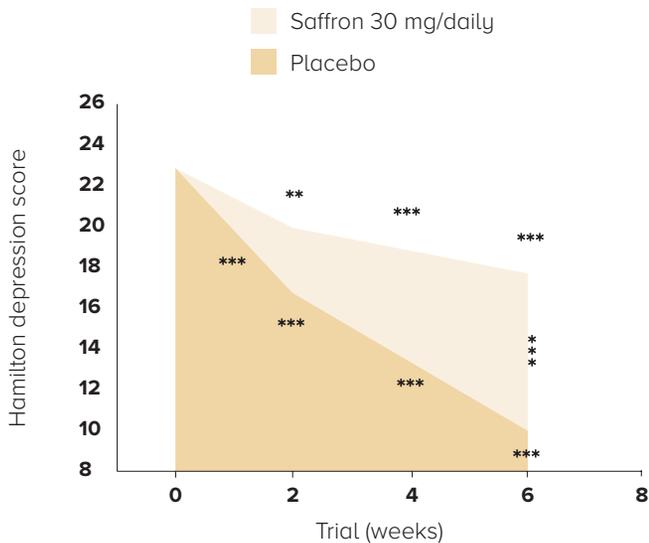
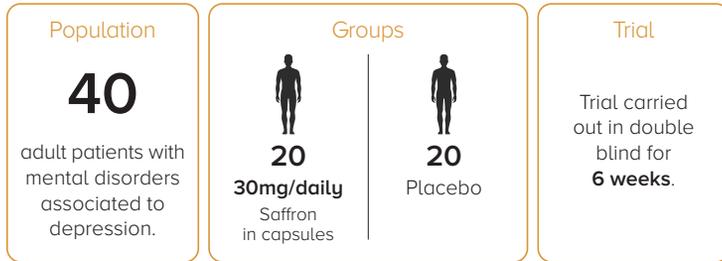
Origin	ITALY
Residue free	YES
Nickel free	YES
Herbicides	NO
Pesticides	NO
Fungicides	NO
Safranal	4%
Crocin	1,7%

Anxiety, insomnia and depression

After a **clinical trial** carried out in a double blind, randomized and placebo trial on a population of 40 adult patients with mental disorders associated to depression, it was possible to observe, after 6 weeks, an important **decrease of 43%** of symptoms on the Hamilton scale.

Clinical trial

Crocus sativus L. in the Treatment of Mild to Moderate Depression:
A Double blind, Randomized and Placebo controlled Trial.



sources

John P. Melnyk, Sunan Wang, Massimo F. Marcone, Chemical and biological properties of the world's most expensive spice: Saffron, Food Research International, Volume 43, iSSUE 8, 2010, Pages 1981- 1989.

Saffron

Saffron with high content of active ingredients, cultivated in Italian Vertical Farm in a controlled environment without the use of herbicides, pesticides and 100% free of heavy metals. Particularly suitable to promote mental well-being.

cod: 3002

45 capsules of 370 mg each

vegan

lactose free

gluten free

residue free

nickel free



RECOMMENDED USE

1 or 2 capsules daily.

SUPPLEMENT FACTS PER SERVING (2 CPS)

	QTY.
Saffron powder	40 mg
of which Safranal	1,6 mg
of which Crocin	0,68 mg

Organic Algae

Our algae

In case of algae or microalgae the cultivation method makes the difference between a product with high quality or a potentially dangerous one. In particular Spirulina acts as a sort of “sponge” absorbing every substance contained in its growing environment. This characteristic make it particularly exposed to pollutants and heavy metal contaminations (lead, cadmium, mercury, arsenic...)

An italian product

It is increasingly common to find low cost micro seaweeds in supplements, they are usually from countries where Spirulina is cultivated in open outdoor pools (in particular China and India). This method of cultivation is potentially dangerous for our health because seaweeds are “bio accumulators”, make this supplement potentially dangerous for our health. In addition, long shipments and an incorrect storage can damage the raw materials destroying active ingredients, minerals, vitamins and aminoacids.



Spirulina

Our organic Algae

As for botanical extracts, we use renewable energy heated greenhouses for the daily production of spirulina algae. Production takes place on site to avoid any possibility of product deterioration with a very low impact on the environment.

Principal uses



antioxidant



immune defences



hair



nails and skin

Safe and certified

Microalgae and cyanobacteria as spirulina are capable to absorb very easily metals present in the environment in which they grow, both from soil and from water. Supplements produced with these microalgae can contain heavy metal residues as lead, arsenic and mercury.

Heavy metal quantities contained in algae, microalgae or cyanobacteria supplements depend on the pollution level of the production facility. They can be very high.

Analysis made on our raw material, show an **almost undetectable level of heavy metals** compared to the maximum legal limit. This allows us to declare that our product is **heavy metal free**.

Nickel

< 0,1 ppm

Toxicological Analysis	mg/Kg	MVA*
Arsenic	< 0,15	-
Cadmium	< 0,10	3 mg/Kg
Mercury	< 0,05	0,10 mg/Kg
Lead	< 0,10	3 mg/kg

Microbiological Analysis

Colonies at 30°	< 5*10 ⁵ UFC/g
Coliform at 30°	< 10 UFC/g
Escherichia coli	< 10 UFC/g
Salmonella	absent in 25 g
Staphylococci	< 10 UFC/g

MVA* Maximum value allowed.

Km o

The cultivation, the storage and the processing of Spirulina take place all in the same manufacturing facility which is fully powered by **renewable energy**. Our protocols are optimized to avoid any type of contamination, we therefore obtain a very safe and highly effective product.



Origin	ITALY
Heavy Metals	NO
Freeze-dried	YES
Organic Product	YES
Ficocianin	14%
Zinc	0,4%

MORE BIOAVAILABILITY

Spirulina is not only rich in macronutrients, **amino acids**, **vitamins** and **minerals** but it also has a very high bioavailability meaning that it is perfectly absorbed by our body.

HIGH IN ZINC

Spirulina is a perfect “bio vector” for zinc, which has beneficial properties on the **immune system** and on **hair** and **nails’** strength.

THE ACTION ON CELLS

Phycocyanin can reinforce cell membranes and increase cells **protection from external attacks** as, for example, viruses and bacteria.

Why choose it

The high quantity of Phycocyanin and Zinc contained in Supreme Nature Spirulina, guarantees an antioxidant effect and an immune system boost with **only 2 tablets** daily.

It contains:

Aminoacids	mg/100g	Aminoacids	mg/100g
Aspartic acid	5.710	Lysine	2.820
Glutamic acid	10.500	Methionine	1.010
Alanine	2140	Proline	3.750
Arginine	10.900	Serine	4.490
Cystine	<500	Tyrosine	2.790
Glycine	6.450	Threonine	1.670
Isoleucine	946	Valine	1.190
Histidine	<500	Phenylalanine	2.070
Leucine	5.610		

Minerals	mg/Kg	Minerals	mg/Kg
Zinc	40.000	Iron	373
Magnesium	1.848	Phosphorus	8.112
Potassium	21.325		

Spirulina

Organic spirulina, high in phycocyanin and zinc. Produced and cultivated in Italy in a controlled environment. No pollutants and heavy metal contaminations.

cod: 3003

50 tablets of 500 mg each

vegan

lactose free

gluten free

from organic agriculture

nickel free



RECOMMENDED USE

2 tablets daily.

SUPPLEMENT FACTS PER SERVING (2 TABLETS)

	QTY.	NRV*
Organic Spirulina	1000 mg	-
of which Phycocyanin	140 mg	-
of which Zinc	4 mg	40%

NRV* Nutrient reference values.

algen[®]
N A T U R A

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