



# MOROSIL™



**INGREDIENT OF THE YEAR:**  
WEIGHT MANAGEMENT

WINNER   
**NUTRA**  
INGREDIENTS USA  
AWARDS 2023



### MEGATRENDS FOR 2023 :

One of the Global Megatrends tracked by Innova is **Pursuit of Health and Happiness\***. Nowadays consumers have a much **healthier view of body weight**. Being overweight has been linked to a host of chronic conditions. **GLOBAL CONSUMERS WANT AUGMENT THEIR WEIGHT MANAGEMENT EFFORTS WITH PLANT-BASED DIETARY SUPPLEMENTS.**



#### HEALTHIER LIVING

Meeting consumers' desire to live well and feel well



**Feeling well** is the top driver of healthier lifestyles for **40%** of consumer.

**61% of consumers globally** say "healthier living" means following a healthy, nutritious diet.

\*Source: Innova Consumer Trends 2023: Balancing Priorities report

#### Pursuit of Health and Happiness



The global health crisis has been followed by a mental health crisis. The economic divide is becoming more evident in health, wellbeing and nutrition

Key drivers:

- More proactive approaches
- Holistic understanding
- Health investment increase
- Impact of economic divide

\*Source: Innova Global Megatrends to 2025 report



## MORO ORANGE VARIETY, THE NATURAL APPROACH TO WEIGHT CONTROL



### COMPOSITION

MOROSIL™  
% (W/W)

#### Anthocyanins

(as cyanidin-3-glucoside)

0.8 - 0.9

#### Hydroxycinnamic acids

(as caffeic, cumaric, sinapic, ferulic, cinnamic)

0.8 - 1.0

#### Flavanones

(as hesperidin, narirutin)

2.0 - 2.2

#### Ascorbic acid

4.3 - 4.5

SUGGESTED DOSAGE: 400 MG/DAY

Thanks to the synergistic mechanism related to the pool of **polyphenols** contained in the Moro blood orange extract, **MOROSIL™** may be used in the management of weight control and, acting on fat accumulation, it can indirectly be used to improve the cardiovascular functions.

### Benefits



PROMOTES WEIGHT LOSS



REDUCES BMI AND IMPROVES THE BODY COMPOSITION



REDUCES WAIST AND HIP CIRCUMFERENCE

**Moro Red Orange** is the most colorful of the blood oranges. The color is intense red, at times almost black, due to the higher content of anthocyanins, compared to the other red-orange varieties; the flavor is stronger and the aroma is intense. The orange juice could be considered a co-product of the agro-alimentary industry where the oranges no more appealing to the food market are squeezed to produce the juice.







## Mechanism of action



- ACTS ON ADIPOCYTES METABOLISM AND DIFFERENTIATION**  
 It is able to modulate the adipogenesis through several key pathways in which redox homeostasis alteration is also involved together with the downregulation of adipocyte-specific and lipogenic gene transcription.
- HELPS THE WEIGHT MANAGEMENT**  
 It is able to promote weight loss and change the body mass index acting on waist and hip circumferences in men and women.
- BOOSTS THE RESULTS OF CALORIE RESTRICTION DIET AND EXERCISE**  
 It is able to accelerate the reduction of body weight and change in body mass index acting on waist and hip circumference in men and women of Caucasian and Asian ethnicity. Moreover, it is able to improve the body composition (DEXA scan) by decreasing general fat mass and fat mass trunk.

## Scientific findings

The activity of **MOROSIL™** has been evaluated in a randomized, double-blind, placebo-controlled clinical trial carried out:

- on **102 volunteers** with a BMI between 25 and 30 kg/m<sup>2</sup>
- treated with **400 mg/day of MOROSIL™**
- for **12 weeks**

		3 MONTHS	6 MONTHS
BODY WEIGHT	<b>MOROSIL™</b>	↓ -3,3%	↓ -4,2%
	Placebo	↓ -2,1%	↓ -2,3%
WAIST CIRCUMFERENCE	<b>MOROSIL™</b>	↓ -2,5%	↓ -3,6%
	Placebo	↓ -2,3%	↓ -2%
HIP CIRCUMFERENCE	<b>MOROSIL™</b>	↓ -2,1%	↓ -2,8%
	Placebo	↓ -1,7%	↓ -1,9%

The **MOROSIL™** supplementation lead to a change in the fat body composition: there was a statistically significant decrease in the abdominal, visceral and subcutaneous fat mass, while the lean mass was kept constant.



**PHARMACEUTICAL FORM:** Gummies  
**MOROSIL™ SERVING SIZE:** 400 mg per day  
**APPLICATION:** the natural Approach to weight control

**INGREDIENTS:** Maltitol, humectant: vegetal glycerin, sorbitol, dry extract of Sicilian Red orange fruit MOROSIL™ (*Citrus Sinensis* (L.) Osbeck), support: beta- cyclodextrin, gelling agent: pectine, acidity regulator: citric acid, natural flavour.

**SUPPLEMENTS FACTS PER SERVING SIZE**  
 (2 gummies per day)

<i>Ingredients</i>	<i>Per Gummy (3.5g)</i>
MOROSIL™ containing:	200 mg
Ascorbic acid	8,6 - 9 mg
Flavanones	4 - 4,4 mg
Anthocyanins	1,6 - 1,8 mg
Hydroxycinnamic acids	1,6 - 2 mg







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INGREDIENTS **USA**  
AWARDS 2023

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**NutraIngredients**  
USA

INGREDIENT OF THE YEAR  
**WEIGHT MANAGEMENT**

**MOROSIL™ Sicilian blood  
orange, Moro variety**  
Bionap USA