

# Xanthigen®

WEIGHT MANAGEMENT



## ABOUT

Xanthigen® is our patent-protected, clinically studied weight management formulation. It contains a combination of puniolic acid from pomegranate seed oil and fucoxanthin from the brown seaweed *Undaria pinnatifida*.

The unique synergy between these two extracts promotes weight loss, suppresses adipocyte differentiation and lipid accumulation, reduces body and liver fat and increases energy expenditure.

## SCIENTIFIC EVIDENCE

### CLINICAL STUDIES DEMONSTRATE:

- Average weight loss of 6.9kg in 16 weeks
- Reduction in waist circumference, blood pressure
- Improvement in blood lipid profiles
- Reduction of liver fat

### PRECLINICAL STUDIES DEMONSTRATE:

- Reduced weight gain
- Reduced TG levels
- AMPK pathway stimulation (reduction of preadipocytes differentiation)
- Inhibition of PPAR $\gamma$  (fat storage)

## REFERENCES

1. Abidov, M., et al. The Effects of Xanthigen® in the Weight Management of Obese Premenopausal Women with Non-Alcoholic Fatty Liver Disease and Normal Liver Fat, Diabetes, Obes. and Metab. 12, 72-81 (2010).
2. López-Ríos, L., et al. Toxicological Assessment of Xanthigen® Nutraceutical Extract Combination: Mutagenicity Genotoxicity and Oral Toxicity, Toxicology Reports. 5, 1021-1031 (2018).
3. Choi, K. M., et al. Xanthigen® Attenuates High-fat Diet-induced Obesity Through Down-regulation of PPAR $\gamma$  and Activation of the AMPK Pathway. Food Sci. Biotechnol. 23, 931-935 (2014).
4. Lai, C.S., et al. Xanthigen® Suppresses Preadipocyte Differentiation and Adipogenesis Through Down-Regulation of PPAR $\gamma$  And C/EBPs and Modulation Of SIRT-1, AMPK, and FoxO Pathways. J. Agric Food Chem. 60(4):1094-101. Doi: 10.1021/Jf204862d. Epub (2012).

## KEY BENEFITS

### Weight management

- Induces UCP-1
- Increases brown adipose tissue
- Stimulates thermogenesis
- Reduces body and liver fat

## PRODUCT FEATURES

### BOTANICAL ORIGIN

*Undaria pinnatifida*  
(seaweed blades)  
*Punica granatum*  
(seeds)

### BIOACTIVES

Fucoxanthin  $\geq$  0.425%  
Puniolic acid  $\geq$  35%

### RECOMMENDED SERVING

200mg 3 times/day

### PACKAGING MATERIAL

25kg

### SHELF LIFE

3 years

### APPEARANCE

Oleoresin

### TASTE

Characteristic

### SAFETY & QUALITY

GMO free, BSE/TSE free, allergen free

### PRODUCT CERTIFICATION

Kosher, Halal

### SOLUBILITY

Insoluble in water  
Soluble in oil and alcohol

## PATENT

**PATENT US8367072B2:** Composition for treating obesity and method of using the same

## CERTIFICATIONS



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