

# Patent Pending Capsimax™ Capsicum Extract

## The **Cool**est Way to Turn Up the **Heat** in Your Formulations!



For decades, scientists have known about the weight-loss potential of red hot peppers, also known as capsicum. Capsaicinoids are a group of compounds which cause the “heat” found in hot peppers. In fact, over the past 30 years, studies including animal and human subjects prove the enormous potential of red hot capsicum and capsaicinoids as a safe, effective nutritional ingredient to support weight management.

Benefits of Capsicum and Capsaicinoids in animal and human studies have shown effects such as:

- Diet-induced Thermogenesis i.e. an increase in energy expenditure in the body
- Reduction in appetite levels shown by decreased cumulative food intake
- Beneficial reduction in body mass, percentage body fat, and waist circumference
- Desirable reduction in levels of critical markers of weight maintenance such as blood glucose, insulin, triacyl glycerol and leptin.

The problem has been delivery. Capsicum extract is HOT. Unbearably hot. And, effective levels are highly irritating to the stomach. Capsimax is the breakthrough! Using a proprietary patented matrix of excipients and coatings, Capsimax capsicum extract gives users the maximum effectiveness of Capsaicinoids—without any oral or gastric irritation.

Patent Pending  
**Capsimax™**  
Capsicum Extract

To learn more, watch a short video  
at [www.capsimax.com](http://www.capsimax.com)

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\*These statements have not been established by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



## Capsicum Extract Beadlets

The **COOLEST** form of **RED HOT** pepper... on Earth!

### Introduction:

As spices and vegetables, Capsicum species, or hot red peppers, are a universally consumed food source. The naturally occurring pungent and active principles of these hot red peppers are called Capsaicinoids. Their most typical natural forms are capsaicin, dihydro-capsaicin and nor-dihydro-capsaicin. In several studies, in animal models and in humans, over past thirty years, hot red peppers, their extracts and the active ingredients Capsaicinoids are being increasingly recognized for their potential as promising and safe options for nutritional supplements aimed at regulating diet and supporting body fat loss management programs.

### Benefits of Capsaicin and Capsaicinoids in Diet:

The benefits of capsaicin are well reported in animal models and human studies. These studies show effects such as:

- Diet-induced thermogenesis (i.e., an increase in energy expenditure in the body)
- A reduction in appetite levels (shown by decreased cumulative food intake) after consumption of Capsaicin from hot red peppers or their concentrated extracts
- Beneficial reduction in body mass, percentage body fat, waist circumference
- A desirable reduction in levels of critical markers of weight maintenance such as blood glucose, insulin, triacyl glycerol and leptin

There is immense potential for nutritionists to incorporate Capsicum and its natural active compounds Capsaicinoids in dietary formulations to curb excess appetite, prevent weight gain and facilitate weight loss inducing behaviour. These beneficial effects of Capsaicinoids have been observed using:

- Natural red peppers at levels typically as high as 10 g/day
- As natural Capsaicin/Capsaicinoids at levels ranging from around 0.3 to about 85 mg/day in diet

For many, such levels of hot red peppers or Capsaicinoids consumption may seem intimidating or difficult to tolerate. Hence levels of compliance and adherence to red pepper/capsaicin based diet management programs so far has been poor. Studies have shown benefits in weight loss or weight management by delivering high concentration Capsicum extracts with oil under highly controlled conditions. So far, this has been difficult to replicate outside test laboratory situations.

Until now, most industrial formulators were unable to use conventional concentrated delivery forms of Capsaicinoids due to their incompatibility with most tablet/capsule lines, and their inability to address the discomfort and compliance issues for end users.

### OmniActive's Innovative Capsimax Capsicum Extract Beadlets

**Capsimax** Capsicum Extracts are a revolutionary new form of natural Capsicum extracts which deliver the benefits of natural Capsaicinoids from red pepper extracts and address the needs of the industry and end-users.

**Capsimax** range comes in spheroidal beadlet forms using OmniActive's patented\*\* & patent pending technology.

**Capsimax** beadlets contain a proprietary matrix of excipients and coatings to minimize oral, and gastric irritation from highly concentrated natural Capsicum extracts when formulated into a

standard dosage form such as a tablet or a capsule. Spheroidal beadlet design with high density and superior flow characteristics facilitates safe and easy handling in high speed tablet/capsule lines. Novel food-grade surface coating safely envelops the capsaicinoid-rich contents, ensuring minimal pungency & irritation in the course of normal product handling in manufacturing.

### Special Features of Capsimax Capsicum Extract Beadlets for Manufacturers:

- Manufactured from high quality and guaranteed purity natural extracts of red hot peppers
- Standardized for Capsaicinoids and Scoville Heat Units to facilitate uniform dosage
- Spheroidal design for exceptionally free flowing particles to be used in tablet/capsule lines
- High strength beadlets which can withstand compression forces of tableting
- Non-hygroscopic beadlets - avoiding clumping/sticking and line clogging
- High bulk density - reducing discomfort caused by airborne capsaicin- rich particles
- Proprietary matrix of excipients and coatings allow end users to peppers / Capsaicinoids without any oral and gastric irritation
- Subjected to pilot human clinicals for tolerability
- Now used in internationally marketed formulations

### Special Features of Capsimax Capsicum Extract Beadlets for Formulators and End-users:

- **Capsimax** Capsicum Extract Beadlets allow end-users to derive the benefits of functionally effective levels of red hot peppers/capsaicinoids without experiencing any discomfort from the intense pungency in the mouth or stomach, and hence facilitate better adherence to a dietary intervention plan involving natural Capsaicinoids from hot red peppers through tablets/capsules compared to virtually any other option currently available in the market
- **Capsimax** Capsicum Extract Beadlets are made from a high quality natural Capsicum extract screened for absence of pesticide residues
- **Capsimax** is manufactured under completely safe conditions with special care to ensure minimal residues of heavy metals, solvents and harmful micro-organisms
- **Capsimax** Capsicum Extract Beadlets, can be easily used in multiple ingredient formulation as the beadlet coating and matrix ensures there is no interaction of the active ingredient with another component and a tablet / capsule formulation
- **Capsimax** Capsicum Extract Beadlets are based on patented\*\* & patent-pending technology from OmniActive Health Technologies- the industry innovator in safe and novel ingredient forms for the nutrition and dietary supplements industry
- **Capsimax** is manufactured under an ISO-22000 quality system with strict HACCP controls
- **Capsimax** is available with Kosher/Halal certification on request.
- **Capsimax** is made available in standard specifications to meet the diverse formulation requirements of nutritional supplements

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\*\*European Patent #1713448 & other patents pending worldwide

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