

## Stress is the natural reaction of the body and the mind to everyday tension and pressure.

If stress gives us the vitality to move forward, too much stress can be detrimental to action and performance. Levels of stress differ for each of us and stress can cause diseases as obesity, heart conditions... So, it is necessary to regulate stress related symptoms with a good stress management.

\*Hans Selye



**Lactium®** is a **milk protein hydrolysate** which contains a **bioactive decapeptide** with **soothing properties**. The peptide, also called **a-casozepine**, is isolated from a milk protein thanks to a "food grade" tryptic hydrolysis.

Lactium® decreases stress-related symptoms and helps to cope with occasional and everyday stress. Lactium® is already used by millions of consumers all over the world who want to regulate their chronic stress symptoms (snacking,

loss of appetite, sleep disorders, pressure...), to face very stressful periods of life (exams, tobacco withdrawal...) or optimize general well-being (immunity increase, energy and balance,...).

**Lactium®** is a natural bioactive without any toxicity or side effects - drowsiness, habituation, memory loss, sedation or addiction.

It can be used by each and every member of a family with an appropriate dosage.



### Inspired by babies

**Lactium**® was discovered thanks to the observation of **the calm state of a baby after drinking milk.**The patented\*\* bioactive is the result of more than **10 years of research and development!** 

\*\*1995

## Lactium®, a food grade and clean label ingredient for numerous applications



## Food grade ingredient

recognized by authorities in different countries (Europe, US, China...).



#### Clear and clean labelling:

"milk protein hydrolysate" (Europe, China) or "casein hydrolysate" (US).



### Easy incorporation

in functional foods and beverages or dietary supplements, thanks to high functional properties.

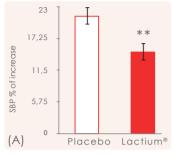
# Lactium®, clinically proven to reduce stress-related symptoms

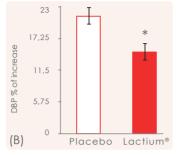


**9 clinical studies**, carried out with more than 500 healthy volunteers, have proven the efficacy of Lactium® to decrease and modulate stress and stress-related symptoms.

#### Proven efficacy on physiological response to induced stress

2X600 mg of Lactium® within 2 days prior to a moderate stress caused by a psychological test followed by a physical test.





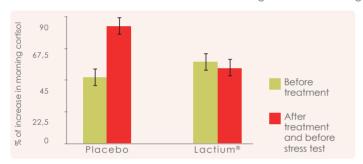
Increase of Systolic Blood Pressure (SBP) (A) and Diastolic Blood Pressure (DBP) (B) during the Stroop test. Mean data  $\pm$  SEM. \*\* p<0.01; \*p<0.05 (Lactium® vs. placebo)

Systolic and diastolic blood pressure levels were significantly reduced with Lactium® after a stress test compared to placebo. Lactium® has an anti-stress effect at 600 mg/day during 2 days.

Messaoudi M. et al. Eur J Nutr 2004, 44(2):128-32.

#### Proven efficacy on physiological response

300 mg of Lactium® during 30 days.

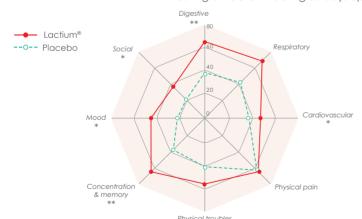


Lactium® reduces the overall increase of cortisol at awakening, a well-known bio-marker for chronic stress.

Non-published, 2017

#### Proven efficacy on psychological response to chronic stress

150 mg of Lactium® during 30 days upon stressed women.



Lactium® significantly reduces perceived stress among stressed women after 30 days of Lactium® supplementation at 150 mg/day.

Percentage of improvement of the major symptoms from day 0 to day 30.

Mean data. \*p<0.05; \*\*p<0.01 (Lactium® vs placebo)

Kim J.H et al, Eur J Clin.2007; 61(4):536-41

# Lactium<sup>®</sup>, designed for consumers

**Lactium®** matches consumers' needs by offering a unique solution to stress-related disorders.

To achieve all the benefits of Lactium®, 3 dosages are recommended for an adult:

- 150 mg/day during 30 days
- 300 mg/day during 15-30 days according to stress level
- 600 mg/day during 2 days (one day prior + the present day)

### Lactium®

A unique Bioactive

An innovation, born from more than 10 years of research

Several clinical studies

Proven efficacy on stress management and its symptoms

Without side effects

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