

# SIBELIUS™

## :LACTOMATO

*Men's natural way to vitality!*

### What is Sibelius™: LactoMato?

It is a branded, scientifically evidenced and clinically proven natural Lycopene Complex, specially developed to **support cardiovascular and prostate health** and **promote healthy sperm function\***. Sibelius™:LactoMato's patented, proprietary formulation, consists of a complex of natural lycopene and whey protein, which provides **enhanced bioavailability and efficacy**.

### Why Lycopene?

Lycopene is a bioactive carotenoid found predominantly in the skin of tomatoes and other red fruits and vegetables. It possesses the strongest antioxidant activity among all carotenoids, being about 10 times more potent than α-tocopherol and 2 times more potent than β-carotene<sup>1</sup>. Lycopene is a lipophilic compound that helps prevent lipid peroxidation, induces the antioxidant defence system and protects against DNA damage. High lycopene intake has been associated with lower age-related health risks, helping to maintain cardiovascular and male health, including healthy prostate and

sperm function<sup>2,3</sup>. Lycopene from fresh tomatoes is poorly absorbed by humans, while processed tomato extracts have shown to improve its bioavailability and efficacy<sup>4</sup>.

### KEY BENEFITS

1. Clinically shown enhanced bioavailability
2. Clinically proven male health benefits
3. Clinically proven cardioprotective benefits
4. Patented, proprietary Lycopene Complex
5. GRAS
6. Non-GMO (pending)
7. Recommended Daily Dose: 350 mg (7 mg lycopene)

### Bioavailability Study

In 2002, a study compared the bioavailability of **Sibelius™:LactoMato**, tomato paste and placebo in 33 healthy volunteers. Tomato paste, a highly bioavailable source of lycopene, was used as a positive control. After 8 weeks of supplementation, lycopene from Sibelius™: LactoMato was as bioavailable as tomato paste, inducing a similar increase in plasma lycopene concentration. This increase was greater in both lycopene groups than in the placebo group<sup>4</sup> (Fig. 1).

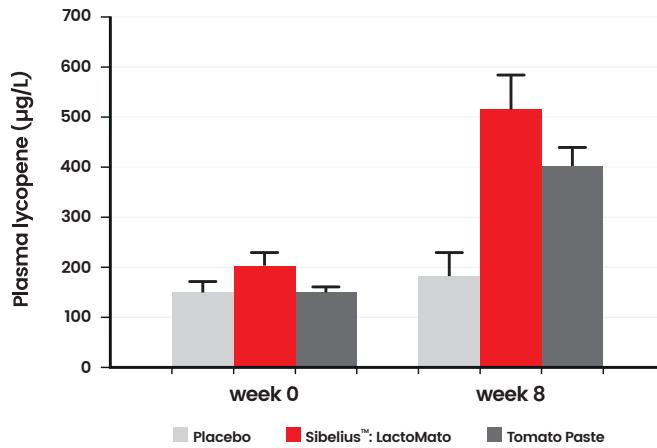


Figure 1. Changes in concentration of Lycopene (µg/L) in human plasma after 8 weeks daily supplementation of 25 mg lycopene from tomato paste or 12.5 Lycopene from Sibelius™: LactoMato or placebo.

Table 1 compares the average increase of lycopene levels in human plasma after daily consumption of lycopene. Sibelius™: LactoMato is 240% more bioavailable than raw lycopene from fresh tomatoes<sup>4</sup>.

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**SIBELIUS**  
NATURAL PRODUCTS

Food Source	Average plasma lycopene increase ( $\mu\text{mol/L}$ )	% increase from fresh tomato (raw lycopene)
Fresh Tomato	0.17	-
Oleoresin	0.24	40%
Tomato Paste	0.47	176%
<b>Sibelius™: LactoMato</b>	<b>0.58</b>	<b>240%</b>

Table 1: Average increase of lycopene levels in human plasma after daily consumption of lycopene.

## Cardiovascular Health Study

An open-label pilot study investigated the effect of **Sibelius™:LactoMato** on heart health in 10 volunteers. Lipid oxidation and oxidised lipoprotein levels were used as markers for cardiovascular health. Daily supplementation of 350mg of Sibelius™: LactoMato led to a significant reduction in lipoprotein oxidation activity levels from week 2 by greater than 70% which was maintained during the duration of the study<sup>7</sup>.



### Citations

- 1 Mozos, I et al. (2018). Lycopene and Vascular Health. *Front Pharmacol*; 9: 521.
- 2 Kelkel, M et al. (2011). Review Article: Antioxidant and anti-proliferative properties of lycopene. *Informa Healthcare*; 45(8): 925-940.
- 3 Agrawal, S (2018). Beneficial effect of lycopene against lifestyle induced male infertility. *The Antiseptic*; 115(3): 5-11.
- 4 Richelle, M et al. (2002). A Food-Based Formulation Provides Lycopene with the Same Bioavailability to Humans as That from Tomato Paste. *The Journal of Nutrition*; 132(3): 404-408.
- 5 Sibelius™: LactoMato Patent: WO 2007/122382 A2, published November 1, 2007.
- 6 Levy, J and Sharoni, Y (2004). The functions of Tomato Lycopene and Its Role in Human Health. *HerbalGram, ABC*; 62:49-56.
- 7 Dovgalevsky PY & Petyaev IM (2008). A prospective, open-label study of the bioavailability, efficacy and safety of lactolycopene (bioavailable lycopene) as Ateronon® capsules in patients with coronary heart disease. *Internal Study*.
- 8 Williams, EA et al. (2019). A randomized placebo-controlled trial to investigate the effect of lactolycopene on semen quality in healthy males.

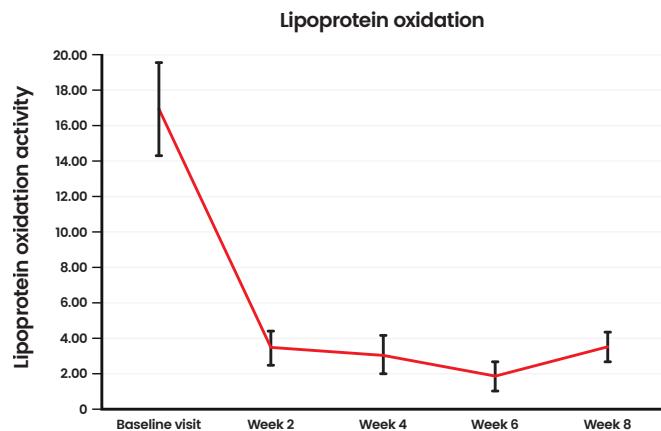


Figure 2. Changes in lipoprotein oxidation activity observed in volunteers following 8 weeks daily supplementation with 350mg of Sibelius™: LactoMato (providing 7mg lycopene). Data shows average +/- SD.

## Male Fertility Study

The male health benefits of **Sibelius™: LactoMato** have been confirmed by Sibelius' new clinical study on 60 healthy male volunteers (18-30 years old). Male participants were given 2 capsules of 350 mg Sibelius™: LactoMato or placebo daily for 12 weeks. Plasma lycopene was significantly increased in the Sibelius™:LactoMato group. Significant improvement in sperm quality was also reported in the Sibelius™:LactoMato arm, including increase in the fast progressive sperm content, as measured by both the proportion of fast progressive sperm and sperm with normal morphology in the Sibelius™:LactoMato group compared to placebo<sup>8</sup>.

- Granulated vegetable extract
- Shelf life: 48 months
- Pack size: 20 kg drums
- Samples available now!

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

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