



SOLUTIONS

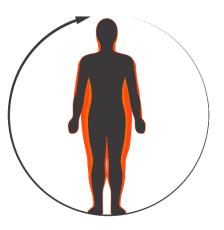
MADE IN GERMANY

Because structure matters.





NovaSOL[®] SUSTAIN - Sustainable weight management





Key characteristics

- Scientifically based weight management
- Dietary supplement with well approved ingredients



May physiologically support
 Sustainable weight reduction & management
 Blood health (lower insulin resistance / HOMA-Index)

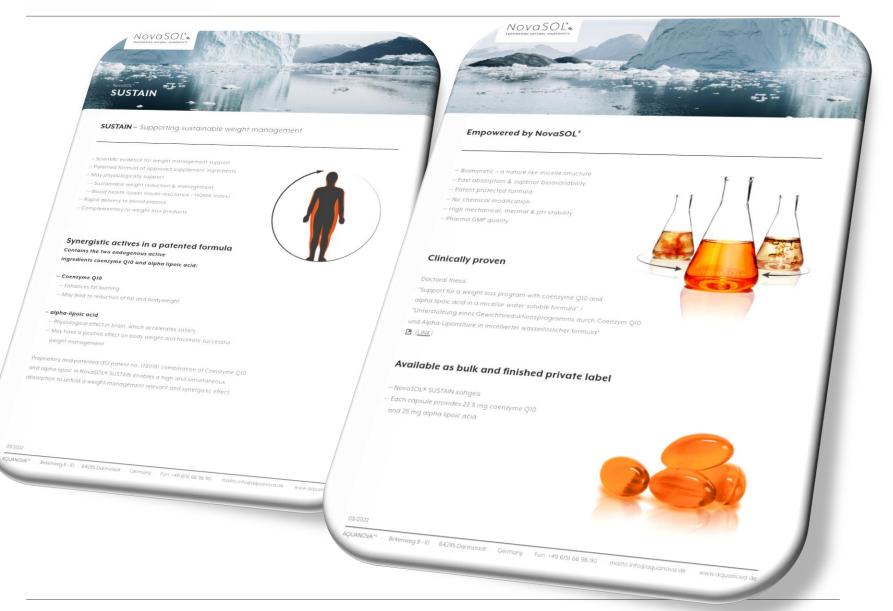


Key features

- ☑ Superior formulation for new galenics
- ☑ High bioavailability
- ☑ Clinically proven (see study results)
- ☑ Rapid delivery to blood plasma
- \blacksquare Based on nano sized micelles
- ☑ Biomimetic technology approach
- ☑ Ingredients with highest quality + pharma GMP production
- ☑ 100% water and fat soluble
- \blacksquare Protected by granted patents
- ☑ Powered by NovaSOL[®] (technology cobranding options)
- \blacksquare Bulk soft gels or ready to use solubilisate
- \blacksquare Complementary to weight loss products



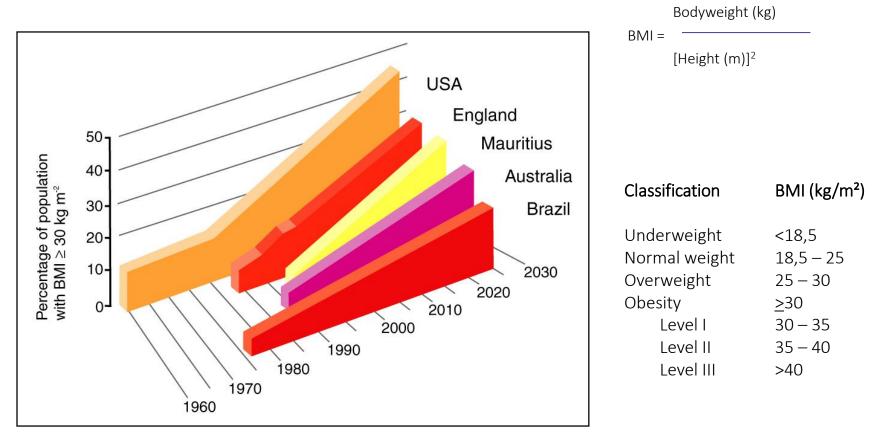






NovaSOL[®] SUSTAIN: Background on obesity

% of population with BMI >30 kg/m²

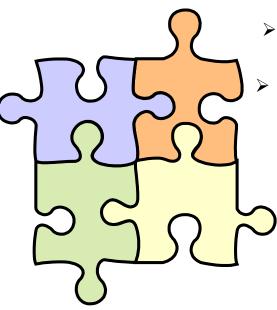




Study Rational – synergistic actives

Coenzyme Q10

enhances fat burning
 should, if taken regularly as a dietary supplement, lead to a reduction of fat and bodyweight



α -lipoic acid

- exerts a physiological effect in the brain, which accelerates satiety.
- If taken regularly as a dietary supplement, it should have a positive effect on body weight and facilitate successful weight management

Combining both ingredients in a dosage form, which allows a high and simultaneous absorption might result in synergistic effects. Alpha-Lipoic Acid and CoQ10 can "act jointly" and might have an beneficial effect on long-lasting fat loss.

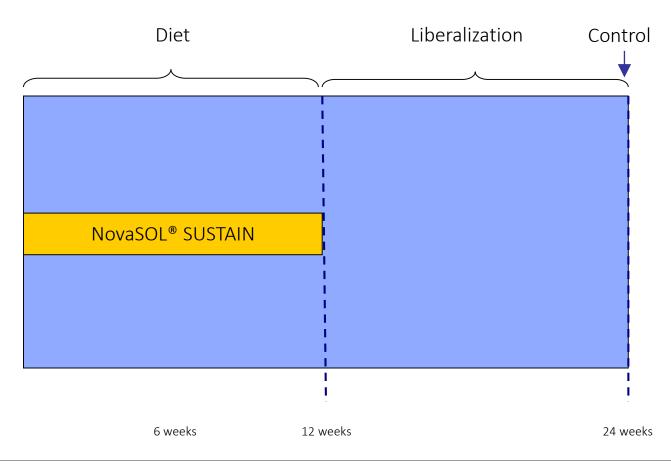


Research design – clinical trial 2009 / 2010

- Title: "Development of a preparation for the stabilization of lipid metabolism after successful weight reduction" (Pro Inno II, BMWi)
- Type: randomized, double-blind, placebo-controlled study
- Conducted in cooperation with University of Stuttgart Hohenheim, Germany
- Participants: 22 overweight adults (BMI 27-33)
 - o 11 Patients with supplement (verum group)
 - o 11 Patients with placebo
- Duration: 12 weeks / follow up after 24 weeks
- Supplementation of verum group:
 - Per day: 100 mg ALA and 90 mg CoQ10
 - Supplemented via 4 soft gel capsules (equals 1,800 mg NovaSOL[®] SUSTAIN)
- Study parameters: Body fat, body composition, waist/hip circumference



Research design





Study results – weight reduction

- Verum group reduced body weight by 2.3 kg
 → 77,8kg in week 12 vs. 80,1kg at baseline
- Placebo group gained 0.2 kg in body weight



Study results – HOMA Index

- HOMA Index:
 - HOMA = Homeostasis Model Assessment
 - Used to indicate insulin resistance (IR)
 - Calculation: Insulin (µU/ml) x Glukose (mmol/l) / 22,5
 - Categorization: values >2= indicates IR, >2,5= IR likely, >5,0 = average of type 2-diabetes
- Study results on HOMA:
 - In the verum group, the HOMA-index significantly improved

 1,5 in week 12 vs. 2,4 baseline
 - Decrease in the HOMA-index in the placebo group was not statistically significant.



Study results – references

- Clinical trial publication draft ("A micellar formulation of coenzyme Q10 and α-lipoic acid may be a useful aid in weight reduction programs", August 2013)
- Doctoral thesis clinical trial ("Unterstützung eines Gewichtsreduktionsprogramms durch Coenzym Q10 und Alpha-Liponsäure in micellierter wasserlöslicher formula", ISBN 3-89959-226-3)



NovaSOL® SUSTAIN: product reference China (CBEC)

