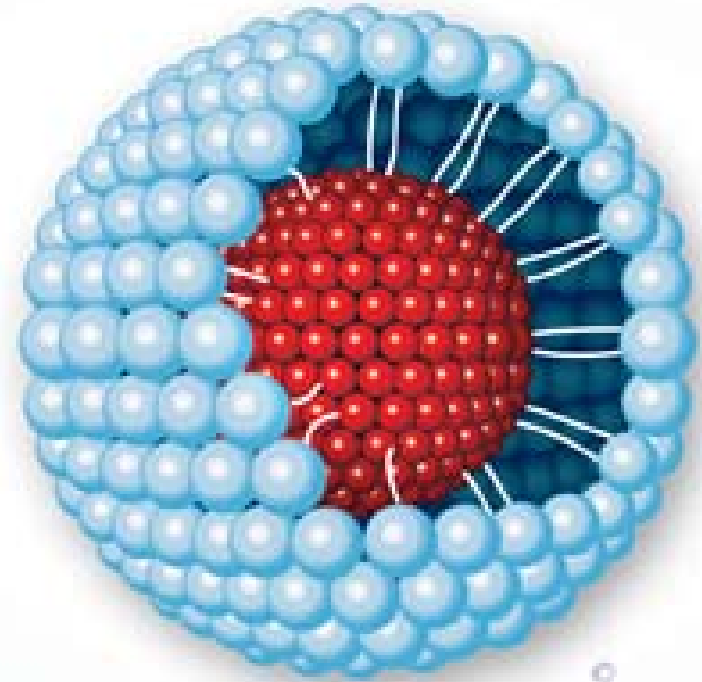




AQUA
NOVA®

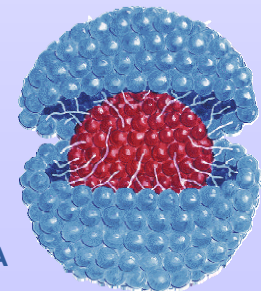


... Crystal Clear Solutions
for the Food, Health, Cosmetics and Pharma sectors



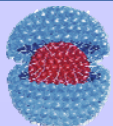
Summary BV – Study NovaSOL[®] Lipoic

Conducted by Prof. Dr. HK Biesalski, University of Hohenheim



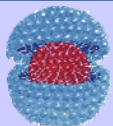
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- Title: Comparative bioavailability of three different α -Lipoic acid formulations
- Design: Open, comparative, 3-way crossover, monocentric
- Trial population: Five male subjects
- Supplementation: Each subject took 100 mg α -LA of each formulation, Clearance period one week
- Sampling: Six blood samples after 0, 15, 30, 60, 90, 120 min.
- Objectives: Plasma concentrations for AUC 0-2h.

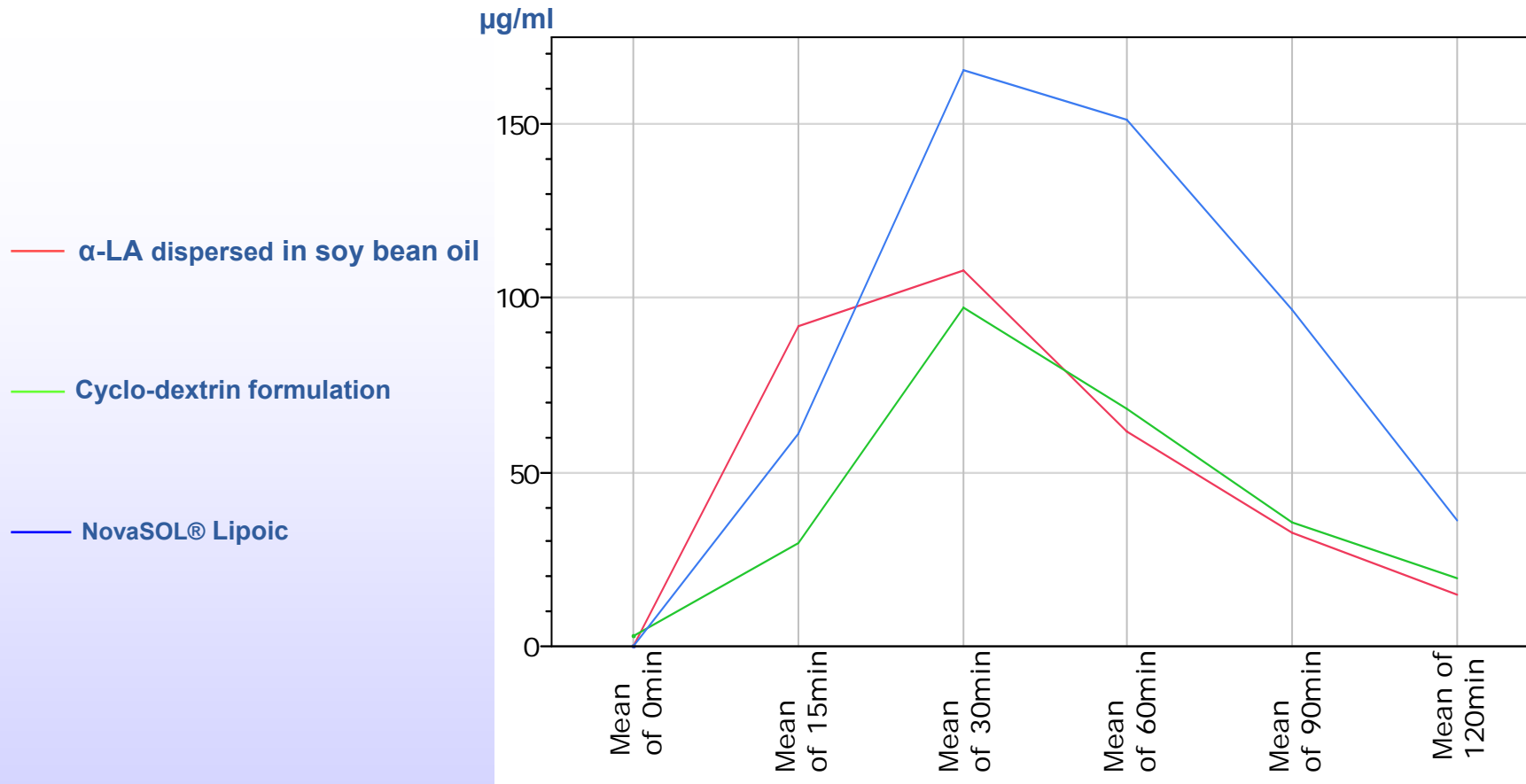


- α -LA dispersed in soy bean oil (soft gel)*
- α -LA in a cyclo-dextrin formulation (soft gel)*
- **NovaSOL®** Lipoic (soft gel)

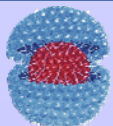
* Regular dietary supplements from the market



Mean Plasma-Concentrations Over Time (AUC 0-2h)



NovaSOL® Lipoic has by far the best bioavailability

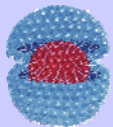


Investigator's Conclusion:

- The bioavailability of the cyclo-dextrin formulation compared to **NovaSOL® Lipoic** is 41.67% (statistically significant)



NovaSOL® Lipoic is 2.4 times (240%) as available as the cyclo-dextrin formulation



Investigator's Conclusion

- The bioavailability of the dispersion in soy bean oil compared to **NovaSOL® Lipoic** is 44.49% (statistically significant)



NovaSOL® Lipoic is 2.25 times (225%) as available as the dispersion in soy bean oil

