

# NovaSOL® Lipoic

Unique Absorption-Enhanced, Water-Soluble  $\alpha$ -Lipoic Acid



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## Unique Absorption-Enhanced, Water-Soluble $\alpha$ -Lipoic Acid

NovaSOL® Lipoic fully utilizes the benefits of AQUANOVA's proprietary solubilisation technology. For the first time,  $\alpha$ -Lipoic acid is available as a crystal clear liquid with unparalleled product features. Due to its unique colloidal structure NovaSOL® Lipoic is amphiphilic, i.e. truly water and fat-soluble, whereas  $\alpha$ -Lipoic acid itself is lipophilic and fat-soluble only. Because of its solubility in water, NovaSOL Lipoic has a significantly enhanced, clinically proven, bio-availability and improved skin penetration characteristics. Furthermore, its solubility allows for the creation of novel crystal clear functional beverages containing this important nutraceutical. So AQUANOVA's NovaSOL Lipoic is the ideal  $\alpha$ -Lipoic acid formulation for dietary supplements, especially soft gel capsules, functional foods and beverages as well as cosmetic creams and face masks.



### Applications

NovaSOL® Lipoic is available for a variety of applications:

- Dietary supplements
- Functional foods & beverages
- Cosmetic creams
- Cosmetic face masks
- Pharmaceutical products

### Alpha-Lipoic Acid

is associated with various health benefits:

- Located in every cell of the body
- Essential for the generation of energy from glucose
- Enhances energy production through enhanced glucose uptake and utilization
- Lowers blood sugar level
- Strong physiological antioxidant
- Enhances heart and artery health, immune and brain functions
- Detoxifies the liver
- "Anti-aging-nutrient" increasing the healthy lifespan
- Anti-aging effect on the skin
- Physiological levels and Lipoic acid from food are not sufficient for effects beyond normal physiology



### NovaSOL® Lipoic

has a clinically proven bio-availability of 100% above the usual oily dispersions and formulations in cyclodextrins.

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NovaSOL® Lipoic stands for novel water-soluble and highly bio-available liquid  $\alpha$ -Lipoic acid formulations, manufactured through AQUANOVA's advanced solubilisation technology.

NovaSOL® Lipoic comprises a 20% and a 10% solubilisate of  $\alpha$ -Lipoic acid. They have been developed for the following purposes:

- To improve the efficacy of dietary supplements by improving their bio-availability (absorption)
- To make the creation of functional foods and drinks with  $\alpha$ -Lipoic acid feasible
- To improve the effects of  $\alpha$ -Lipoic acid containing cosmetic creams and face masks by improving their skin penetration characteristics

NovaSOL Lipoic is particularly suitable for soft gel capsules. It can be filled into the capsules without any additional excipient. But it can also be used for suitable two piece hard gels.

The addition to foods, beverages and cosmetic creams is very easy and requires no special additional measures.

We are happy to help our customers with the decision between NovaSOL Lipoic 20% or 10%. NovaSOL Lipoic, like all AQUANOVA solubilisates, has a very good thermal, mechanical and pH-stability and is not affected by the gastric pH-conditions of 1.1.

### Presentation

NovaSOL® Lipoic is a high quality solution:

- Colorless, crystal clear liquid (solubilisates)
- Available as bulk solubilisates with either 20% or 10%  $\alpha$ -Lipoic or in the final dosage form as (bulk) soft gel capsules
- Animal and GMO-free



### NovaSOL® Lipoic

Unique features of our high tech formulations are:

- Superior bioavailability
- Liquid and crystal clear
- Readily water soluble
- Readily fat soluble
- State of the art solubilisation technology

### Documentation & Samples

On request we will supply you with:

- Product data sheet
- Material safety data sheet (MSDS)
- Study reports
- Samples solubilisate

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AQUANOVA is a supplier of innovative and versatile formulations of food and cosmetic ingredients, nutrients and pharmaceutical actives with superior properties providing new application opportunities. AQUANOVA in close cooperation with renowned scientists develops and manufactures (under ISO / GMP) liquid formulas (solubilisates with product brand "NovaSOL®") utilizing its proprietary technology. The solubilisates have a micelle structure, which is thermally, mechanically and pH stable, even in gastric acid. Owing to the special properties of this micelle structure, the solubilisates support the development of novel innovative and pioneering dietary supplements, functional foods and beverages, cosmetic products and pharmaceuticals. The company's headquarter is located in Darmstadt (near Frankfurt), Germany.

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