

AQUANOVA receives Technology Award for its pioneering solubilisation technology
Frost & Sullivan awards AQUANOVA the “Excellence in Technology Award”

Darmstadt, August 30th, 2006 – AQUANOVA, leading supplier of nanostructured liquid formulas (“solubilisates”) for active substances, has been awarded the Frost & Sullivan “2006 Excellence in Technology Award” for developing the highly sophisticated solubilisation technology, based on nanoscaled encapsulation of nutrients and ingredients for functional foods and dietary supplements.

Frost & Sullivan’s Award is bestowed upon a company that has pioneered the development and introduction of an innovative technology that has either impacted or has the potential to impact several market sectors. The award recognizes, that AQUANOVA’s technology delivers nutrients and ingredients in the micelle form in accordance with nature’s ‘nano architecture’. Hereby hydrophilic and hydrophobic substances are converted into the liquid solubilisates (brand name “NovaSOL®”), which are soluble in both fat and water (“ambiphilic”). These solubilisates have proven to offer superior functional as well as technical application advantages.



The human body needs to convert fat-soluble nutrients into micelles prior to absorbing them. Here, AQUANOVA’s technology enables the formation of product-micelles, which are just 30 nanometer (billionth of a meter) in diameter for the encapsulation of active functional food and supplement ingredients (e.g. vitamins, phytoextracts, coenzyme Q10 or fatty acids), thereby enhancing its bioavailability many times over. High standard clinical studies such as the 2005 study for Coenzyme Q10 (NovaSOL® Q), have proven a bioavailability up to four times higher when compared to straight CoQ10.

As Frost & Sullivan reports, droplet sizes in conventional emulsions and microemulsions are up to approximately 3,000 nm and do not significantly enhance absorption or penetration. Moreover, these formulations often have a limited stability. NovaSOL® solubilisates on the contrary contain nanosized micelles, which are thermally, mechanically and pH stable and encapsulate the nutrients / ingredients with superior loading capacity.

Besides improving the efficacy of nutrients by improving their absorption, the solubilization technology also allows adding fat soluble nutrients to crystal clear beverages, which in that way had never been possible before. The technology also offers advantages in terms of processing, because it can be applied without the utilisation of additives. The patent-protected formulas (more than 30 patents are already issued) and the underlying production process leave the substances involved chemically unmodified.



The technology, which has its roots back in 1995 (when AQUANOVA was founded), has been applied to a broad variety of substances such as ascorbic acid in the patented NovaSOL® C (the first and only fat-soluble and chemically unmodified vitamin C) and Coenzyme Q10 (NovaSOL® Q), among others. It also offers innovative features for phytoextracts, making them available as fully water and fat-soluble solutions, which are easy to handle and to integrate into end-products such as soft gels. Underpinned by the company’s commitment to high production and material standards (such as ISO, GMP, Kosher, Halal, etc.) the unique benefits of its technology offer the potential for applications in a broad industry spectrum.

Company profile AQUANOVA:

AQUANOVA is a leading supplier of innovative liquid solutions ("solubilisates") for a broad spectrum of well known raw materials and active substances (e.g. vitamins, fatty acids or phytoextracts). Completely in accordance with the era of nanotechnology and nature's architecture, AQUANOVA develops, produces and together with partners markets these solubilisates (product brand "NovaSOL®") utilizing its proprietary and patent protected technology in close cooperation with renowned scientists and experts. The basis are nanostructured carriers (so called "product micelles"), which are thermally, mechanically and pH stable. These carriers, which are structured according to nature's architecture, exhibit an average diameter of only approx. 30 nm. AQUANOVA solubilisates are ready to use enablers for the development and production of innovative and pioneering products in the fields of nutraceuticals, (functional) food, cosmetics, and pharmaceuticals. The absorption of the active substances, carried by the solubilisate (product micelles) and the resulting bioavailability is significantly increased and optimized. In addition the solubilisates generate unique technical features and benefits such as superior antioxidative capacity for oils and fats. The ISO certified company, who also works for global players such as BASF and Degussa, was founded in 1995 and is headquartered in Darmstadt (near Frankfurt), Germany. For more information, visit www.aquanova.de.

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