

# News Release



January 23, 2007

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## **High bioavailability for Solu™ Q10 from BASF**

- **Scientific study confirms outstanding performance of BASF's coenzyme Q10**
- **Customers benefit from easy processing**

A clinical study recently published in the scientific journal "International Journal of Food and Nutrition Science" has shown that BASF's Solu™ Q10 formulation for dietary supplements offers a higher level of bioavailability than similar products. This was demonstrated by comparing BASF's Solu™ Q10 to several commercially obtainable coenzyme Q10 formulations. Bioavailability is a parameter indicating how rapidly and completely the coenzyme is absorbed by the body, and depends to a great extent on the dosage form. Besides conventional, crystalline coenzyme Q10, there are oily dispersions and liquid solubilizates. Solu™ Q10 from BASF is a solubilizate.

"Solu™ Q10 exhibits outstanding bioavailability and can be manufactured using far fewer formulation aids than other solubilizates," said Kai Sievert, head of Business Development and Product Management for Specialities in BASF's global Nutrition unit. "This makes coenzyme Q10 from BASF an extremely 'label-friendly' ingredient for customers. Solu™ Q10 also has very good dosing properties and is easy to use.

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In the clinical study, more than 50 men and women took 60 milligrams of coenzyme Q10 in different forms daily for two weeks. The result: compared to crystalline coenzyme Q10, a supplement commonly used in standard products, Solu™ Q10 was absorbed at least 3-fold faster by the human body. When taken daily for several weeks, highest blood levels of coenzyme Q10 were clearly achieved with Solu™ Q10 compared to other products. In general terms, the solubilizates displayed in our study better bioavailability than oily dispersions and crystalline coenzyme Q10.

The distinguishing characteristic of solubilizates is that they form micelles with a very fine particle distribution. Micelles are molecules that form aggregates in the solvent. This behavior simulates the natural digestive process and the body can rapidly absorb the coenzyme. Other foods, such as milk, are also absorbed by the body in this way.

BASF is helping manufacturers of dietary supplements to energize their products with new grades of Coenzyme Q10 that target anti-aging and chronic disease prevention.

### **Nutrition at BASF**

The Business Unit Nutrition is a leading supplier of additives and active ingredients for animal and human nutrition. The product portfolio includes vitamins, carotenoids, amino acids, enzymes, organic acids, performance enhancers, omega-3s and other products. BASF offers products of outstanding quality produced with modern, state-of-the-art technologies. BASF also combines technical services and scientific expertise to meet the highest demands and to deliver the best value to the industry. Premium formulations are a key strength that has made BASF a frontrunner in the industry.

For more information, please visit [www.human-nutrition.basf.com](http://www.human-nutrition.basf.com) and [www.animal-nutrition.basf.com](http://www.animal-nutrition.basf.com).

**BASF – The Chemical Company**

BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products, agricultural products and fine chemicals to crude oil and natural gas. As a reliable partner to virtually all industries, BASF's intelligent system solutions and high-value products help its customers to be more successful. BASF develops new technologies and uses them to open up additional market opportunities. It combines economic success with environmental protection and social responsibility, thus contributing to a better future. BASF has over 95,000 employees and posted sales of more than €42.7 billion in 2005. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA), New York (BF) and Zurich (AN). Further information on BASF is available on the Internet at [www.basf.com](http://www.basf.com).