PRESS RELEASE
Edison, New Jersey, USA, Feb 21st, 2012

Human Study Shows Tocotrienol Better Protects Skin From Photo Damage

February 21st, 2012 – New Jersey, USA – Carotech, the largest and only GMP-certified palm tocotrienol complex producer is pleased to share a new human clinical trial which shows topical application of antioxidant formulation containing both tocotrienols and tocopherols prior to sun exposure (UV rays), confer higher protection from photo damage, than retinol (vitamin A) or other vitamin E free preparations.

Researchers at the University of Milan recruited 30 subjects with photosensitivity and evaluated the efficacy of a new topical antioxidant formulation containing 10% of tocopherols and 0.3% tocotrienols on preselected areas (2x2cm) on the subjects’ buttock after a double dose exposure of UVB light. The UVB exposure was given according to predetermined minimal UVB erythema dose (MED). As further controls, 2 similar areas on the forearms of 15 of the subjects were selected and applied with control cream (which has the same basic composition as the new formulation but without tocopherols and tocotrienols) on one area and vitamin A on the other. These areas are then exposed similarly to the two-fold MED after 30 minutes. Post-irradiation reactions (extent of the lesions / erythema / oedema / itch / vesciculation) assessment was carried out assigning scores indicative of their intensity.

Results showed that pre-treatment with this new full spectrum vitamin E topical formulation significantly reduces the signs and symptoms of photo-damage (lesions / erythema / oedema / itch / vesciculation) in the 30 subjects, compared to vitamin A or controls. The researchers also noted that sufficient level of protection to photoprovocation test was achieved with a single application of the cream, and that the new formulation was safe and did not cause any side effects.

The principal researcher, Prof P.D. Pigatto concluded that the use of a new topical formulation containing significant concentrations of tocotrienols and tocopherols represents a promising strategy to reduce the photo-induced skin damage.

“Research has shown that tocotrienols promote skin health in areas like anti-aging, anti-inflammation, anti-wrinkles, and more. This human study further supports the use of tocotrienols especially in sun care / solaire formulations. Applying a tocotrienol cream derived from Tocomin® natural full spectrum palm tocotrienol complex on the skin before sun exposure can help reduce the damaging effects of the sun’s UV rays,” says Mr. WH Leong, Vice President, Carotech Inc.

Source:
“Clinical evaluation of photoprotective effect by a topical antioxidants combination (tocopherols and tocotrienols)” Authors: V.F. Pedrelli, M.M. Lauriola, P.D. Pigatto
About Carotech

Carotech, incorporated in 1990, is a public listed company in Malaysia (ACE Market). It was the first producer in the world of natural full spectrum tocotrienol/tocopherol complex (Tocomin® & TocominSupraBio®), natural mixed carotene complex (Caromin®) and phytosterol complex (Stelessterol™) via its patented technology.

Besides being the largest producer of tocotrienol, Carotech is also the only GMP-Certified tocotrienol producer in the world.

Tocomin SupraBio® is a patented (US Patent No. 6,596,306) self emulsifying palm tocotrienol complex that ensures optimal tocotrienols oral absorption.

Carotech is a subsidiary of Hovid Ltd (www.hovid.com), one of the largest GMP-certified pharmaceutical companies in Malaysia.

Carotech manufactures these products under the tradenames: Tocomin®, TocominSupraBio®, Caromin® and Stelessterol™.

Websites: www.carotech.net and www.tocotrienol.org

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