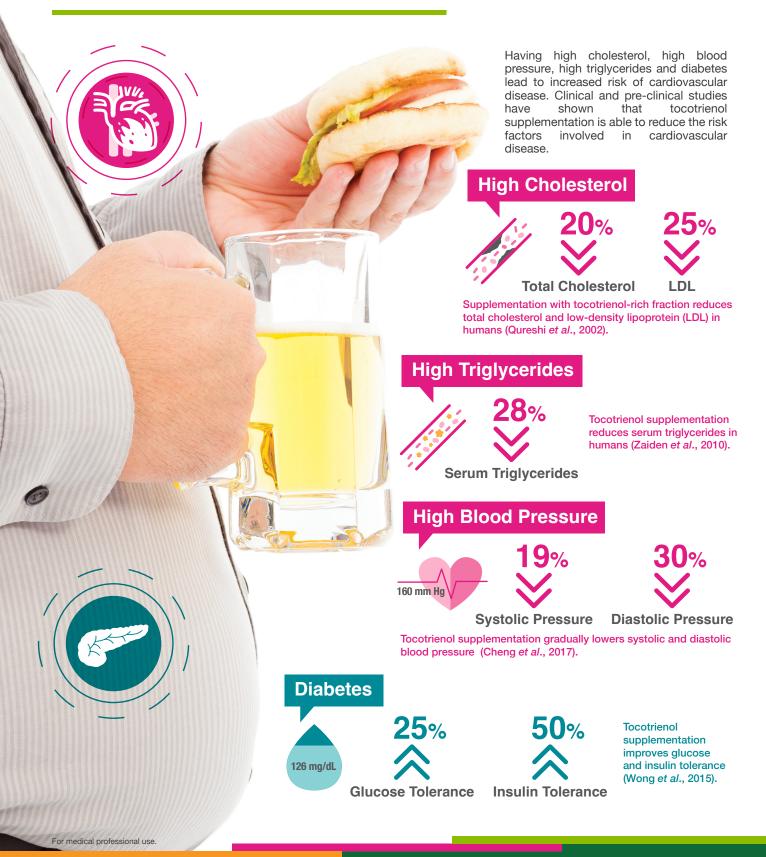


Get to the Heart of the Matter: The Impact of Tocotrienol Supplementation on Cardiovascular Health





Tocotrienols, The Extraordinary Vitamin E

Vitamin E is not just a single molecule, but a family of eight fat-soluble substances that are sub-divided into two classes of structurally-similar molecules. These two classes are tocopherol and tocotrienol, each of which have four structurally and chemically diverse molecules termed as alpha (α), beta (β), delta (δ), and gamma (γ) respectively.

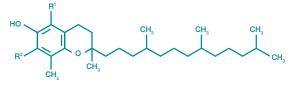


Tocotrienols have up to **60X** more antioxidative potency compared to α-Tocopherol, and have unique anti-inflammatory properties not seen in α-Tocopherol¹.

TOCOTRIENOLS

Tocotrienols have unsaturated isoprenoid side chains with three double bonds. This unique property gives it better flexibility with a higher efficiency of penetrating into the cell membrane. Tocotrienols are potent ANTIOXIDANTS* with unique ANTI-INFLAMMATORY properties.

 α : R' = CH₃, R" = CH₃ β : R' = CH₃, R" = H γ : R' = H, R" = CH₃ $\delta: R' = H, R'' = H$



TOCOPHEROLS

Tocopherols, in contrast, have saturated side chains. They also function as antioxidants, but this chemical structure gives them a lower antioxidative capacity as compared to tocotrienols.

 $\alpha: R' = CH_3, R'' = CH_3$ β : R' = CH₃, R' = H $\gamma : R' = H, R'' = CH$ $\delta : R' = H, R'' = H$

Tocotrienols have Unique Properties that Positively **Impact Different Areas of the Body**

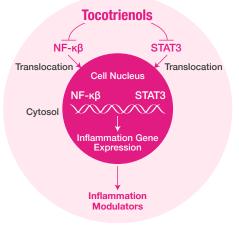
Tocotrienols are naturally sourced from plant species like oil palm, rice and Annatto seed.

Each analogue of tocotrienol are functionally unique, with α -, β -, δ -, and γ -tocotrienol each exerting different beneficial effects on health and disease that are separate from the biological functions of a-tocopherol.



E., Kagan, V., Han, D., and Packer, L. (1991). Free radical recycling and int properties of alpha-to-copherol and alpha-to-cotrienol. Free Radical Biolo-(2015). Am J Trans Res.²(%). 1621-1620 1/2). Food Chemistry, 134: 920–925 al. (2010). Biochem Pharmacol., 30(11): 1613–1631

Potent Anti-Inflammatory Agent



Tocotrienols have pronounced and potent effects on NF-kB (key master regulator of inflammation) STAT3 (master inflammatory transcriptional factor) to reduce inflammation^{2,3,4}.

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