

# TOCOTRIENOL AND CURCUMIN ENRICHED TRANSDERMAL CREAM

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**A** topical fluid or cream formulation wherein the main ingredient is tocotrienol, and curcumin is added to enhance the anti-cancer effects of tocotrienols. The composition is useful for the treatment or prevention of a cancer, a tumour or an inflammatory disorder, particularly breast cancer.

In one embodiment of the present invention is a composition containing an active amount of tocotrienol or derivative thereof as the main ingredient; and an addition of curcumin, for prevention or inhibition of a cancer and/or a tumour in a mammal, preferably breast cancer,

wherein curcumin is added to the composition to enhance the anti-cancer effect in tocotrienol.

It is to be noted that tocotrienols have potent anti-cancer and anti-inflammatory effects and the addition of curcumin enhances these effects in the product (*Table 1*).

## THE TECHNOLOGY

- Production of a compound containing a mixture of tocotrienol and curcumin at a certain combination for optimum synergistic effects.
- The cream form of the compound containing the mixture for transdermal application.

TABLE 1. INHIBITORY EFFECTS OF TRF, CURCUMIN, CURCUMIN + 1  $\mu$ M TRF, TRF + 1  $\mu$ M CURCUMIN ON MCF-7 HUMAN BREAST CANCER CELLS

Inhibition of proliferation, IC <sub>50</sub>			
Curcumin	Curcumin + 1 $\mu$ M TRF	TRF	TRF + 1 $\mu$ M Curcumin
25.3 $\mu$ M	25.7 $\mu$ M	30.4 $\mu$ M	15 $\mu$ M

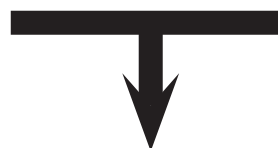
## THE PRODUCT



Tocotrienols from palm oil



Curcumin from turmeric



Tocotrienol + Curcumin cream

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## THE BENEFITS

- An application cream containing combination of tocotrienols and curcumin for reducing inflammation and prevention of cancer.
- A 2-in-1 convenient and cost-effective health product.

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