A fluid 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 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 of the product.

It is to be noted that tocotrienols have potent anti-cancer and anti-inflammatory effects and the addition of curcumin enhances these effects two-fold in the product (Figures 1, 2 and 3).

**THE TECHNOLOGY**

- Production of a capsule containing a mixture of tocotrienol and curcumin at a certain combination for optimum synergistic effects.
- The encapsulated compound containing the mixture for oral consumption.

![Figure 1. Percentage of MCF-7 human breast cancer cell growth with varying concentrations of TRF.](image1)

![Figure 2. Percentage of MCF-7 human breast cancer cell growth with varying concentrations of TRF with 1 μM curcumin.](image2)
Figure 3. Inhibitory effects at 50% (IC$_{50}$) of curcumin, curcumin + 1 μM TRF, TRF and TRF + 1 μM curcumin on MCF-7 human breast cancer cells.

THE PRODUCT

Palm oil

Turmeric

Tocotrienol capsules

Curcumin capsules

Tocotrienols+Curcumin capsules
THE BENEFITS

- A health supplement for consumers with enhanced activity based on synergistic effects of tocotrienols and curcumin.
- A 2-in-1 convenient and cost-effective health product.

REFERENCES


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