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).

**TABLE 1. INHIBITORY EFFECTS OF TRF, CURCUMIN, CURCUMIN + 1 μM TRF, TRF + 1 μM CURCUMIN ON MCF-7 HUMAN BREAST CANCER CELLS**

<table>
<thead>
<tr>
<th>Inhibition of proliferation, IC₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curcumin</td>
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<tr>
<td>25.3 μM</td>
</tr>
</tbody>
</table>

**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.

**THE PRODUCT**

- Tocotrienols from palm oil
- Curcumin from turmeric
- Tocotrienol + Curcumin cream
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.

REFERENCES


