DL-α-Tocopherol acetate
(Vitamin E acetate)
Cell Culture Tested

Product Code: TC376

Product Description:
Molecular Weight: 472.74
Molecular Formula: C_{31}H_{52}O_{3}
CAS NO.: 7695-91-2
Synonym: Vitamin E acetate

D-a-tocopherol exist as the predominant form of vitamin E in plasma and tissues. Alpha-Tocopherol inhibits the proliferation of estrogen receptor positive and estrogen receptor negative human breast cancer cell lines in a dose dependent manner in vitro. The cytosolic Protein Kinase C interacts with DL-α-Tocopherol acetate in vascular smooth muscle cells. α-Tocopherol is carried along with LDL and shields LDL from the oxidation by free radicals. This leads to a decrease in LDL oxidation, which is a major cause in triggering artery stenosis. Artery blockage is due to the immune cells engulfing the oxidized LDL, which causes swelling and accumulation of fatty masses inside the artery walls.

Directions:
This product is insoluble in water. It is miscible with chloroform at 100 mg/ml, yielding a clear, colorless to faint yellow solution.

Quality Control:
Appearance
Colourless to greenish-yellow viscous liquid
Solubility
Colorless to light yellow solution in 100mg per ml chloroform.

Density (at 25° C)
~0.96 g/mL
Refractive Index (n 20/D)
1.494 - 1.498
Assay (HPLC)
NLT 96.00 %

Cell Culture Test
Complies

Storage and Shelf Life:
Store at 2-8°C.
Shelf life is 36 months.
Use before expiry date given on the product label.

Disclaimer:
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