ABSTRACT

A PROCESS FOR PRODUCING NANO-CAPSULES AND NANO-BEADLETS CONTAINING PHYTONUTRIENTS DERIVED FROM PALM OIL

The present invention relates to a process for producing nano-capsules and beadlets containing phytonutrients derived from palm oil. The phytonutrients are such as tocotrienols, coenzyme Q and carotenes. In the present invention, the phytonutrients are encapsulated by three different processes. Sizes of the nano-capsules and nano-beadlets are in nano-range (20nm-500nm) which contributes to their stability. Shell materials are used for encapsulation of the phytonutrients. The shell materials are specially chosen to render slow property of the phytonutrients for better adsorption in vivo. Slow release of the encapsulated phytonutrients is able to ensure the phytonutrients are slowly released and remained longer in body for more efficient adsorption.