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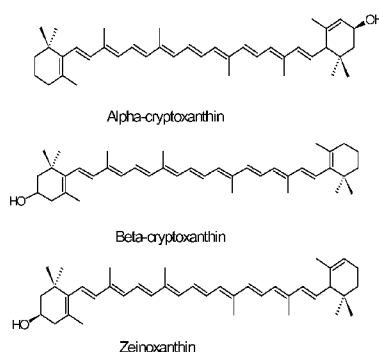


Fig. 1

(57) Abstract: The present invention provides beta-cryptoxanthin crystals from plant source and a process for its preparation. The present invention particularly relates to a process for the preparation of high purity beta-cryptoxanthin crystals comprising at least about 10% by weight total xanthophylls, of which at least about 75% by weight is trans-beta-cryptoxanthin and the remaining including beta-carotene, and trace amounts of trans-capsanthin and other carotenoids derived from the plant source, including capsicum fruits. The production of beta-cryptoxanthin crystals with high content of trans-beta-cryptoxanthin makes it ideal and suitable for use as a provitamin A source material and also has potential effects on improving bone health and inhibiting bone resorption.