

EVTene™ 8% - Natural Mixed-Carotene Complex 8% Oil Concentrate is a reddish vegetable oil concentrate of natural occurring mixture of carotene, extracted from virgin crude palm oil / palm fruits (*Elaeis guineensis*).

EVTene™ 8% contains natural **alpha-carotene, beta-carotene, gamma-carotene, lycopene** and other carotenes, a unique mixture in natural proportion as found in carrots.

Palm mixed-carotene complex is the only true mixed-carotene complex with the highest ratio of **alpha-carotene**. The unique combination of carotenes in natural proportion and their synergistic effects may ultimately confer the many beneficial health effects associated with carotenes.










Specification

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| TOTAL MIXED-CAROTENE COMPLEX | 80 mg/g (8%) Minimum |
| Isomers | Typical Value * |
| Alpha-Carotene | 26 mg/g |
| Beta-Carotene | 54 mg/g |
| Gamma-Carotene | 240 mcg/g |
| Lycopene | 80 mcg/g |
| TOTAL MIXED-CAROTENE COMPLEX | 80.3 mg/g |
| VITAMIN A ACTIVITY | Each gram of this product contains not less than 96,000 IU Vitamin A Activity ^[1] OR 27,000 µg Retinol Activity Equivalents (RAE) ^[2] . |
| (1) | Biological Activity 1 mg of trans beta-carotene = 1,667 IU of Vitamin A Activity. [Martindale The Extra Pharmacopoeia, 30 th ed., page 1051]. |
| (2) | 1 µg RAE = 2 µg supplemental beta-carotene. [21CFR101.9, FDA] |
| PEROXIDE VALUE | Maximum 10 meq/kg |
| MOISTURE | Maximum 1.0 % |
| MICROBIOLOGY | |
| - Total Aerobic Microbial Count | Max 1000 cfu/g |
| - Total Combined Yeasts/Moulds Count | Max 100 cfu/g |
| CAROTENES ISOMERIC RATIO * | Approximately 34% cis-isomer and 66% trans-isomer |
| SOLUBILITY | Soluble in oils and fats. Insoluble in water. Partially soluble in ethanol. |

*Typical Value refers to the average analytical results accumulated over the past years

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|  SHELF LIFE | 36 months |  LABELLING | Products formulated using EVTene™ 8% can be labelled as containing natural carotenes. |
|  STORAGE | Store in airtight containers, below room temperature |  STANDARDS | Palm Mixed-Carotene is in compliance with Commission Regulation (EU) No.231/2012: E160a(ii) – Plant Carotenes. Palm Mixed-Carotene Complex is Self-Affirmed GRAS according to Title 21 Code of Federal Regulation for use in Foods and Drinks. |
|  PACKAGING | 1kg, 20kg or 180kg container under nitrogen | | |

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| Application | <ul style="list-style-type: none"> Dietary Supplement Natural Colorant Water Dispersible Carotene Cosmetics & Personal Care Products |
| Intended Consumer | The product is sold in bulk to manufacturers of supplements, pharmaceutical, food & beverage and / or personal care product industry for further process prior to consumption. |

| Product Certification | | Sustainability | |
|---|---|---|---|
|  | Certified in accordance to the current Pharmaceutical Inspection Co-Operation Scheme (PIC/S) GMP– Guide to Good Manufacturing Practice for Medicinal Products |  | Wildlife-Friendly Palm Products |
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TECHNICAL SUPPORT

ExcelVite's technical support team is ready to assist you in the use of our range of phytonutrients and other ingredients in your formulations at all stages of your product development. Emphasis is given to supplying the most cost effective and efficient solution to your particular requirement. Contact us for further information.

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