

Palm Nutraceutical Excellence

## EVTene™ 20%

### **Natural Mixed-Carotene Complex** 20% Oil Concentrate



EVTene™ 20% - Natural Mixed-Carotene Complex 20% 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™ 20% 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**

TOTAL MIXED-CAROTENE COMPLEX	200 mg/g (20%) Minimum			
Isomers	Typical Value *			
Alpha-Carotene	65 mg/g			
Beta-Carotene	135 mg/g			
Gamma-Carotene	0.5 mg/g			
Lycopene	0.1 mg/g			
TOTAL MIXED-CAROTENE COMPLEX	200.6 mg/g			
VITAMIN A ACTIVITY	Each gram of this product contains not less than <b>240,000 IU</b> Vitamin A Activity <sup>[1]</sup> OR <b>67,500 µg Retinol Activity Equivalents (RAE)</b> <sup>[2]</sup> .			
<ul> <li>(1) Biological Activity 1 mg of trans beta-carotene = 1,667 IU of Vitamin A Activity. [Martindale The Extra Pharmacopoeia, 30<sup>th</sup> ed., page 1051].</li> <li>(2) 1 μg RAE = 2 μg supplemental beta-carotene. [21CFR101.9, FDA].</li> </ul>				
PEROXIDE VALUE	Maximum 10 meq/kg			
MOISTURE	Maximum 1.0 %			
MICROBIOLOGY				
- Total Aerobic Microbial Count	Max 1000 cfu/g			
- Total Combined Yeasts/M <mark>oulds Coun</mark> t	Max 100 cfu/g			
CAROTENES ISOMERIC RA <mark>TIO *</mark>	Approximately 34% cis-isomer and 66% trans-isomer			
SOLUBILITY	Soluble in oils and fats. Insoluble in water. Partially soluble in ethanol.			

<sup>\*</sup>Typical Value refers to the average analytical results accumulated over the past years

	SHELF LIFE	36 months	N LABELLING	Products formulated using EVTene™ 20% can be
•	STORAGE PACKAGING	Store in airtight containers, below room temperature 1kg, 20kg or 180kg container under nitrogen	STANDARDS	labelled as containing natural carotenes 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.
Application • Dietary		Dietary Supplement     Nature	ral Colorant • Water D	Oispersible 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 indefer for further process prior to consumption.				ceutical, food & beverage and / or personal care product industry
Product Certification				Sustainability

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Intended Consumer	The product is sold in bulk to manufacturers of supplements, pharmaceutical, food & beverage and / or personal care product industry		
intended Consumer	for further process prior to consumption.		
Product Certification		Sustainability	
	Certified in accordance to the current Pharmaceutical Inspection Co-	ExcelVite	



GMP







Operation Scheme (PIC/S) GMP-Guide to Good Manufacturing Practice

# **MSPO Supply Chain**





Wildlife-Friendly Palm Products



### 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.

### ExcelVite Sdn. Bhd.

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