

EVTeneSol™ 1% (T)



Cold Water Dispersible Natural Mixed-Carotene

1% Powder

EVTeneSol[™] 1% (T) - Cold Water Dispersible Natural Mixed-Carotene 1% Powder is a spray-dried water dispersible form of natural mixedcarotene (EVTene[™]), extracted and purified from virgin crude palm oil / palm fruits (*Elaeis guineensis*).

EVTeneSol[™] 1% (T) contains natural *alpha-carotene, beta-carotene, gamma-carotene, lycopene* and other carotenes, a unique mixture in natural proportion as found in carrots. It gives a yellow to orange shade (depending on dosage) when used as natural colorant in food and drinks. The product also contains modified starch and antioxidants (tocopherol and ascorbic acid).

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.

TOTAL MIXED-CAROTENE COMPLEX	10 mg/g (1%) Minimum			
Isomers	Typical Value *			
Alpha-Carotene	3.3 mg/g			
Beta-Carotene	6.7 mg/g			
Gamma-Carotene	35 mcg/g			
Lycopene	10 mcg/g			
TOTAL MIXED-CAROTENE COMPLEX	10.04 mg/g			
VITAMIN A ACTIVITY	Each gram of this product contains not less than 11,667 IU Vitamin A Activity ^{[2} OR 3,350 µg Retinol Activity Equivalents (RAE) ^[2] .			
 Biological Activity 1 mg of trans beta-carotene = 1 1 μg RAE = 2 μg supplemental beta-carotene. [210] 	,667 IU of Vitamin A Activity. [Martindale The Extra Pharmacopoeia, 30 th ed., page 1051]. CFR101.9, FDA]			
E 1% 1cm (peak max @ approx 447nm	25 Minimum			
Remarks : E1% 1cm is percentage extinction coefficient.	It is the absorbance at 447nm with a 1% solution measured in a 1cm cuvette.			
PARTICLE SIZE	Minimum 95% less than 600 μm			
MOISTURE	Maximum 5.0 %			
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			

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

	SHELF LIFE STORAGE PACKAGING	18 months Store in airtight containers, below room temperature 1-kg aluminum pouch or 10-kg container	8	LABELLING STANDARDS	as containing natural carotene Palm Mixed-Carotene is in Regulation (EU) No.231/2012 Palm Mixed-Carotene Con	/TeneSol [™] 1% (T) can be labelled es compliance with Commission 2: E160a(ii) – Plant Carotenes. nplex is Self-Affirmed GRAS of Federal Regulation for use in	
	Application	Dietary Supplement	Natur	Functional Food & Drinks			
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			
	GMP	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		
		NS 550 1 839-05/2006 Kosher		MSPO Supply Chain	RSPO Supply Chain		
	STANDARDS MALAYSIA A COREDITED SAMM 364				CERTIFIC TO MSPO SC STANDARD: 2018 CERT. NO.: MRSPO SC 00120	CERTIFIED TO RSPO SC STANDARD: 2200 CERTIFIED TO RSPO SC STANDARD: 2200 CERTIFIED TO RSPO SC STANDARD: 2200 CERTIFIED TO RSPO SC STANDARD: 2001 CERTIFIED TO RSPO SC STANDARD: 2001 CERTIFIED TO RSPO SC	

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.

DISCI AIMER.

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