

**Product description of Natural vitamin e/Mixed Tocopherol:**

Natural vitamin E/ Mixed Tocopherol				
Basic Information				
No.	Product Name	Specifications	Appearance	Applications
①	D-alpha tocopherol oil	1000IU~1430IU	Brownish red oil	Nutrition products and baby foods
②	Mixed tocopherols oil	50%~90%	Brownish red oil	Dietary supplement and food industry, anti-oxidant food
③	Mixed tocopherol powder	30%	Light yellow powder	Food fortification, food anti-oxidant, cosmetics, beverages
④	D-alpha tocopherol acetate oil	1100IU~1360IU	Light yellow oil	Food fortification, pet food, cosmetics, tablets, capsules
⑤	D-alpha tocopherol acetate powder	500IU~700IU	Light yellow powder	Food products such as flour, milk powder, beverage powder
⑥	D-alpha Tocopherol Acid Succinate	1185IU、1210IU	Off-white crystalline powder	For use in tablets and hard capsules
⑦	Water soluble vitamin E	25%	Yellow waxy solid	Dietary supplements, pharmaceutical formulation
Packing				
For powder products: 1~20kg with Aluminum foil bag, more than 20kg with cardboard drum. For oil products:1~20kg with Aluminum Bottle,20kg to 960kgwith Iron drum.				
Storage				
Store in cool & dry place.It shall be stored at ambient temperature,dry conditions,protected from heat,light and oxygen.				
Shelf life				
24 months when properly stored.				

### Related products:

Product Name:	Specification
Flaxseed oil powder	Omega-3
Pumpkin Seed oil powder	Omega-6
MCT powder	Omega-9

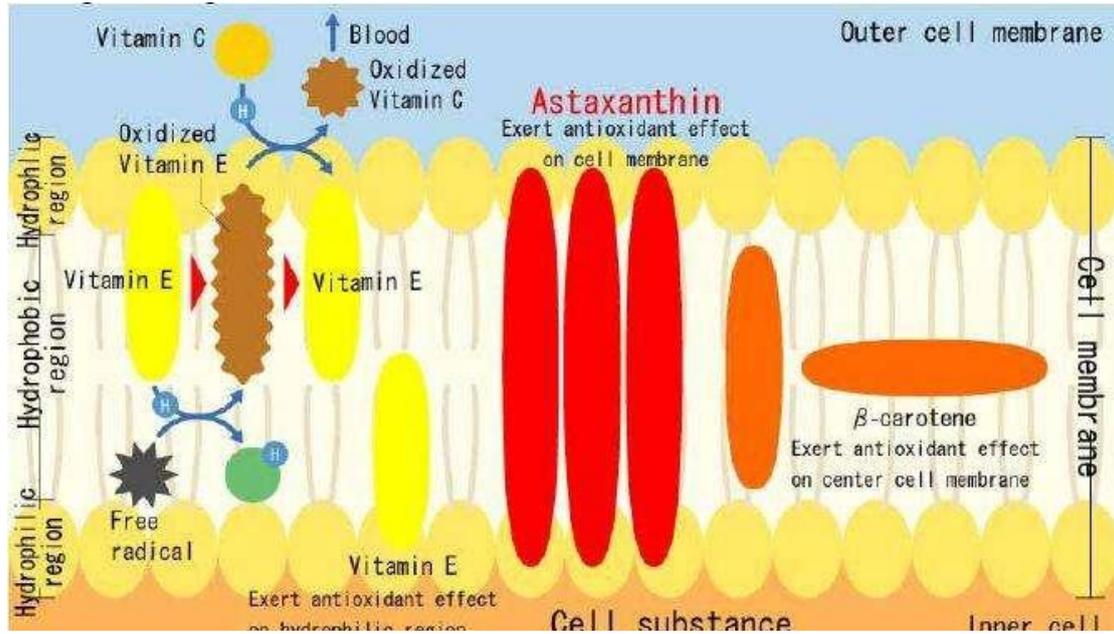
### Introduction of Natural Vitamin E:

Vitamin E refers to a group of compounds that include both tocopherols and tocotrienols. Of the many different forms of vitamin E,  $\gamma$ -tocopherol is the most common form found in the North American diet.  $\gamma$ -Tocopherol can be found in corn oil, soybean oil, margarine, and dressings.  $\alpha$ -tocopherol, the most biologically active form of vitamin E, is the second-most common form of vitamin E in the diet. This variant can be found most abundantly in wheat germ oil, sunflower, and safflower oils. As a fat-soluble antioxidant, it interrupts the propagation of reactive oxygen species that spread through biological membranes or through a fat when its lipid content undergoes oxidation by reacting with more-reactive lipid radicals to form more stable products. U.S. and European Union recommendations are to consume, respectively, 15 mg/day or 11 mg/day (female) and 13 mg/day (male).



### Functions of Natural Vitamin E:

1. As an antioxidant, vitamin E acts as a peroxy radical scavenger, disabling the production of damaging free radicals in tissues, by reacting with them to form a tocopheryl radical, which will then be reduced by a hydrogen donor (such as vitamin C) and thus return to its reduced state. As it is fat-soluble, it is incorporated into cell membranes, which protects them from oxidative damage;



- As an enzymatic activity regulator, for instance, protein kinase C (PKC), which plays a role in smooth muscle growth, can be inhibited by  $\alpha$ -tocopherol;



- Vitamin E also has an effect on gene expression. Macrophages rich in cholesterol are found in atherosclerotic tissue;



4. Vitamin E also plays a role in eye and neurological functions, and inhibition of platelet coagulation.



### Application of Natural vitamin E:

#### 1. Pharmaceutical and Health care products:

In the pharmaceutical industry can be used as raw materials for the production of medicine for the prevention and treatment of atherosclerosis, cardiovascular disease, cancer, arthritis, delaying brain function delaying other diseases.



## 2. Cosmetic

In the cosmetics industry can delay skin aging and enhance skin elasticity, restore youthful vitality.



## 3. Food additives and nutrients

In the food industry is mainly used in oil food antioxidant and nutrition enhancer and as a feed additive, can improve animal reproductive function, increase fertility.



## COSMETIC RAW MATERIAL

Coenzyme q10	Chlorella Growth Factor
Alpha- Arbutin	Fucoidin
Beta-Arbutin	Aloe vera gel freezed powder
L-Glutathione reduced	Grape seed extract
5-Aminolevulinic Acid HCl (5-ALA)	Green tea extract
Oxyresveratrol	Giant Knotweed extract Polydatin
Glabridin	Apple Extract
Lycopene	Loquat Leaf Extract Ursolic Acid