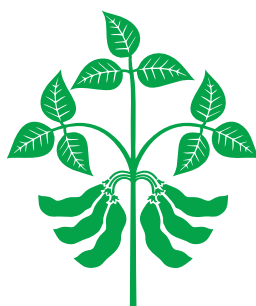


**Natural-e<sup>TM</sup>**  
Natural Vitamin E

**PhytoLite**  
Phytosterol



Soy



Sunflower



Rapeseed



**Matrix Life Science**

Innovate | Science | Life



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## About us

Matrix Life Science is a life science division of 50 year old manufacturing group located at Aurangabad, Maharashtra. We are pioneers in India and one of the leading manufacturers globally extracting Natural Vitamin E and Phytosterol from 100% Non-GMO Sunflower, Rapeseed and Soy oil seed source.

With our state of the art manufacturing facility and global certification standards we ensure to provide highest quality natural ingredients for Food, Pharma, Nutraceutical, Feed, Cosmetic and Personal care industry.

Matrix assures that all its products are 100 % Non-GMO IP  by making sure of the traceability back to the source.



Identity Preserved



Customised Solutions



Global Presence



Applicable to be used organic

## Difference Between Non-GMO and Identity Preserved (IP)

Non-GMO confirms that there is no trace of genetically modified elements detected on analysis. This does not assure that the product was derived from a Non-GMO source. Whereas IP certified organics are produced from assured Non-GMO raw materials which guarantee an audit trail documenting the production and process inputs and a third party certifier confirming same.

## Is it suitable for Organic Food / Cosmetics?

Our products under the **Natural**  brand meet the U.S. Department of Agriculture (USDA) regulations under its National Organic Program (NOP) and they are also approved by ECOCERT for COSMOS standard thereby making our Tocopherols suitable for use in organic food and cosmetic.

## Natural Versus Synthetic Vitamin E

Natural Vitamin E (d-alpha Tocopherol & Mixed Tocopherol)	Synthetic Vitamin E (dl-alpha Tocopheryl Acetate / Vitamin E Acetate)
Derived from natural oil seed sources	Synthesized using chemicals
Comprises all four tocopherol molecules i.e. alpha, beta, gamma and delta Tocopherol	Comprises of only alpha isomer
d-alpha Tocopherol shows 100% biological activity	dl-alpha Tocopherol shows 50% biological activity
Exhibits active antioxidant property	Does not exhibit active antioxidant property
Increases shelf life of products	Does not increase shelf life of products
Completely safe & no threat of allergic reactions	Threat of allergic reactions
Allows 'Natural Vitamin E' claim on your product labels	Does not allow 'natural' label claim

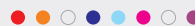
## References

\*[http://non-gmoreport.com/articles/mar07/identity\\_preservation.php](http://non-gmoreport.com/articles/mar07/identity_preservation.php)

\*W Maya, K Mayur, S Ashar : Pharmaceutical Profile of Alpha-Tocopherol-A Brief  
INTERNATIONAL JOURNAL OF PHARMACEUTICAL AND CHEMICAL SCIENCES : ISSN : 2277-5005 : 2012

\*Jack Challem : Two new Studies find Natural Vitamin E better absorbed, retained than Synthetic : 1998 : The Nutrition Reporter

## Mixed Tocopherol



- Concentration : Oil - 50%, 70% & 90% Powder - 30% & 50%
- Description : It comprises of all 4 Tocopherol molecules i.e. alpha, beta, gamma & delta tocopherols.
- Application : As a food antioxidant to prevent rancidity issues. Topical & skin-care products.
- Usage : Essential & edible oils, snacks, seasoning, noodles, ready to eat products, breakfast cereals, granola, oleoresin, carotenoid, bakery & meat products. Cosmetic & Personal care products.

## d-Alpha Tocopherol



- Concentration : Oil - 750IU, 900IU, 1000IU & 1300IU Powder - 500IU & 700IU
- Description : It majorly comprises of alpha tocopherol which shows 100% biological activity.
- Application : To increase antioxidant defense of the body & fight free radical damage.
- Usage : Softgel capsules, dietary & Nutraceutical supplements like tonic, health drinks, etc.

## d-Alpha Tocopheryl Acetate



- Concentration : Oil - 1000IU, 1100IU & 1360IU Powder - 500IU & 700IU
- Description : It is ester form of d-Alpha Tocopherol which shows enhanced stability in formulation.
- Application : Multi-vitamin & mineral formulation where higher stability is required.
- Usage : Food fortification, multi-vitamin capsules & Nutraceutical products.

## d-Alpha Tocopheryl Succinate



- Concentration : 1185IU & 1210IU
- Description : It is esterified & concentrated powder form of d-Alpha Tocopherol.
- Application : Tablet manufacturing.
- Usage : Vitamin E tablets and hard shelled capsules.

## Vitamin E TPGS



- Concentration : Waxy solid with 25-30% d-Alpha Tocopherol.
- Description : Vitamin E TPGS (d-Alpha Tocopheryl Polyethylene Glycol Succinate) is the only water soluble form available.
- Application : Fat mal-absorption where regular Vitamin E cannot be absorbed by the body.
- Usage : Pharma and Nutraceutical products where water soluble Vitamin E form is required.

## PhytoLite

### Natural Phytosterol



- Concentration : 90% & 95%
- Description : It is white fine powder with limited solubility in oils & fats.
- Application : Anti-cholesterol, hormone development & cosmetics.
- Usage : As functional food ingredient, hormone manufacturing & cosmetics.

### Natural Phytosterol Esters



- Concentration : 97%
- Description : Esterified form of Phytosterol which shows enhanced stability & solubility in oils and fats.
- Application : Anti-cholesterol & cosmetics
- Usage : Margarine, cheese, butter, yogurt, fat spread, edible oils, bakery products, etc. Cosmetic applications include sunscreen lotions, moisturizers, creams, etc.



# Natural-<sup>TM</sup>e Natural Vitamin E

## A Master Antioxidant with multiple applications!



### Food Antioxidant

It is considered as one of the best natural antioxidant which effectively delays oxidation process and helps to increase shelf life of various food products. It is natural replacement to synthetic antioxidants like TBHQ, BHA & BHT which are notorious for their side effects.



### Food Fortification

Natural Vitamin E is the best form for food fortification as it shows 100% biological activity. Vitamin E is the most important antioxidant defense of the body and hence various food products are fortified with it to provide wholesome nutrition.



### Dietary Supplements

It is difficult to get Recommended Dietary Allowance (RDA) of Vitamin E from food sources alone. Hence dietary and Nutraceutical supplements ensures that our body gets its vital antioxidant supplement on regular basis to maintain optimum health.



### Healthy Skin & Hair

Vitamin E is essential ingredient in maintaining healthy skin and hair. Mixed Tocopherol is the best form of Vitamin E for topical care applications. It effectively prevents skin & hair from free radical damage caused by harmful UV rays, pollution, etc.

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## Phyto<sup>TM</sup>Lite Phytosterol & Phytosterol Esters



### Anti-Cholesterol Ingredient

Phytosterol helps to reduce bad LDL cholesterol from the body which reduces the risk of cardio-vascular & coronary heart diseases. It is widely used as natural functional food ingredient for effective cholesterol management.



### Hormone Development

Phytosterol are pre-cursor in manufacturing of 4AD hormone & various other therapeutic hormones like progesterone & DHEA through microbial transformation. This is the most efficient method among all the methods available in hormone development.



### Immunity & Growth Booster

Phytosterol helps to improve overall immunity of the body. It assists in functioning of various other nutrients like co-enzyme Q10 and acts as micro-nutrient for growth. Phytosterol also helps in treatment of cancer, diabetes, arthritis & inflammation.



### Skin Health

Phytosterol is an excellent conditioner and anti-ageing ingredient which helps to build & repair collagen tissues of the skin. It is anti-inflammatory and shows strong UV-rays protection. Phytosterol helps to provide shine & gloss to cosmetic products.

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