





# What's Inside?

- 1. Who Are We
- 2. The Science Behind Tocotrienols
- 3. The Gold Tri.E's Difference
- 4. Our Versatile Product Portfolio
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## SD GUTHRIE AT A GLANCE

SD Guthrie is a leading, vertically integrated global palm oil company with over two centuries of rich history. As a founding member of the Roundtable on Sustainable Palm Oil (RSPO), the Group was publicly listed on Bursa Malaysia in 2017. Headquartered in Malaysia, SD Guthrie operates across the entire palm oil value chain, including upstream plantations, downstream activities, research and development, and renewables within the agribusiness sector.

With a robust market capitalisation of RM30.84 billion and a workforce of over 84,000 employees, SD Guthrie is one of the largest companies listed on Bursa Malaysia. In 2022, we contributed 12% of the global certified sustainable palm oil (CSPO) supply, underscoring our commitment to sustainability and leadership in the industry.



# NOT ALL PALM OIL IS CREATED EQUAL

The SD Guthrie story starts here, where biodiversity is protected and deforestation is prohibited. Every drop of palm oil produced by SD Guthrie comes from responsibly managed plantations that adhere to the stringent requirements of the European Union Deforestation Regulation (EUDR), while also protecting and conserving biodiversity.

We utilise satellite data to ensure full traceability of our supply chain, allowing us to identify risk areas and resolve issues as they arise.

At SD Guthrie International Nutrition, a division of SD Guthrie Berhad, sustainability isn't just a commitment — it's our guiding principle. As pioneers in producing Certified Sustainable Palm Oil (CSPO), we leverage over two centuries of expertise to drive innovation that harmonises with nature, fostering a healthier planet for future generations. Together, we are not just imagining a sustainable tomorrow — we are building it, one breakthrough at a time.



**UPSTREAM** 



68 Palm Oil Mills

DOWNSTREAM

Refineries

Oil Palm Estates

Kernel Crushing **Plants** 

Operating in countries worldwide

INNOVATION AND R&D -

5 **R&D** Centres Innovation Centres



RENEWABLES



Biogas Plants



## **QUALITY WITH PURPOSE**

At SD Guthrie International Nutrition, we believe in enriching life by harnessing the best from nature and advancing innovation at the intersection of health science and wellness. Since our pioneering work in Tocotrienol extraction began in 1993, we have remained dedicated to delivering products that meet the highest standards of quality.

Today, our customers in more than 30 countries trust Gold Tri.E as one of the purest and most versatile ingredients for clean-label applications in dietary supplements, pharmaceuticals, cosmeceuticals, functional foods, skincare, and animal nutrition.

# THE SCIENCE BEHIND TOCOTRIENOLS

Introducing the unsung hero of Vitamin E: naturally-sourced tocotrienols. Structurally superior to the more common tocopherols, these palm-based tocotrienols are the ideal ingredient for your next innovation in nutrition and skin health. With three double bonds in their unsaturated side-chain and a shorter, more flexible tail, tocotrienols ensure superior absorption, delivering potent benefits that your customers will love and appreciate.

#### d-alpha-tocotrienol



#### d-beta-tocotrienol



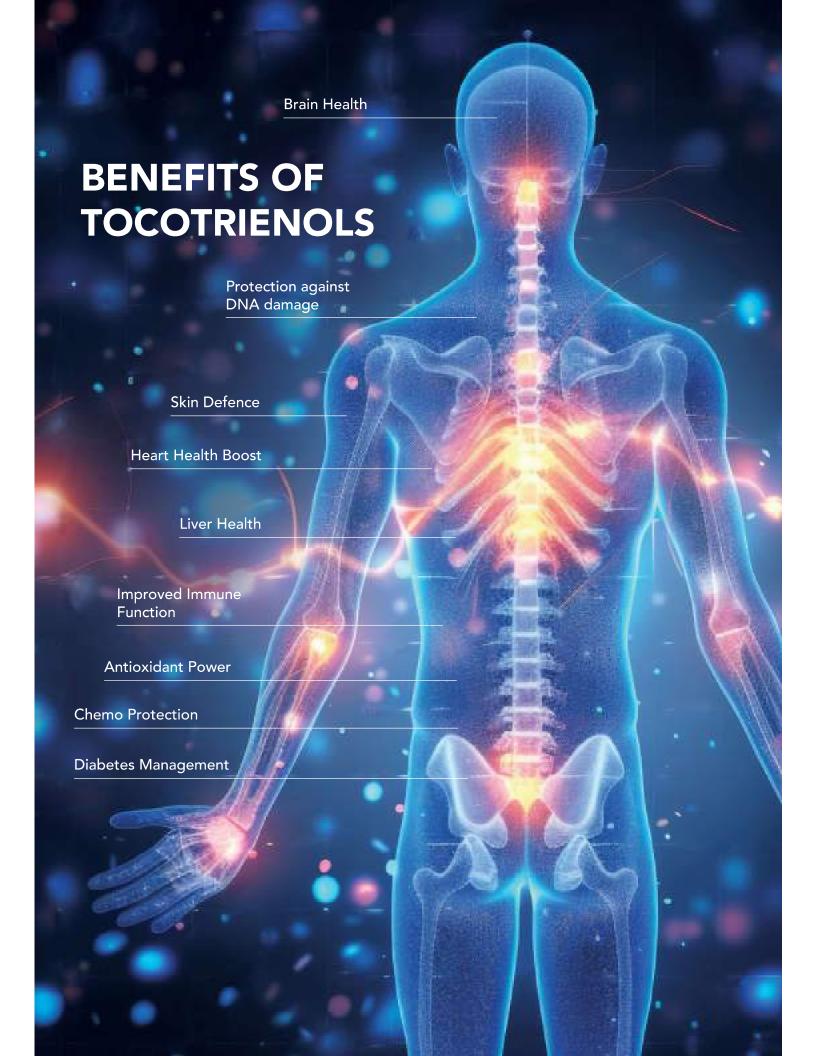
#### d-gamma-tocotrienol



#### d-delta-tocotrienol









Gold Tri.E seamlessly integrates sustainability and innovation into every product. While these efforts are crucial, they represent only one aspect of our broader commitment. We also pride ourselves on our ability to tailor products to customer needs and adapt swiftly to market trends. Every batch we create is a reflection of our commitment not only to quality but also to our clients' specific demands, ensuring relevance and excellence in a rapidly evolving marketplace.



# GOLD TRI.E'S APPLICATIONS

## Powder Range



# Functional beverages

beauty drink, health and sports drink, etc.

### Functional food & specialty products

geriatric products, specialty foods, animal nutrition & pet foods, etc.



### Supplements

direct compression type products like tablets and hard capsules, effervescent products, etc.



#### Cosmetics

sunscreen,
compressed/
compact powders,
and certain
specialties, including
lip care products.





# GOLD TRI.E'S APPLICATIONS

Liquid Range



# Dietary supplements

single ingredient, combo ingredients & high-dose capsule



### Personal care & cosmetic products

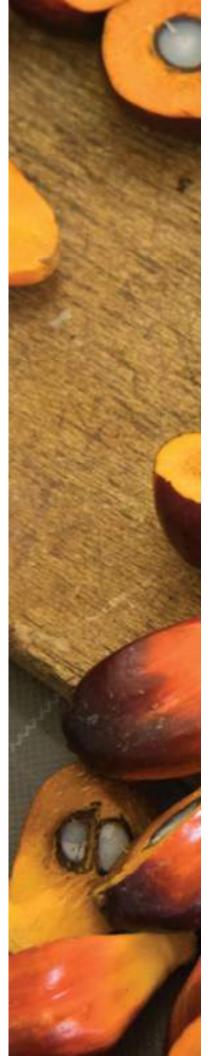
anti-ageing
products, sunscreen/
sunblock products,
facial wash, hair
serum, nail care, lip
balm and lipstick,
toothpaste and
other oral care
products, ointments,
massage oil etc



### Functional food & specialty products

cereal bar and granola, healthy/ nutritional & flavoured oils, healthy dressing and spreads, animal nutrition & pet foods, etc







# **GOLD TRI.E'S VERSATILE RANGE**

Gold Tri.E™ 20P (Powder)



#### **Features and Benefits**

Contains a minimum of 20% tocopherols & tocotrienols

Available in Aluminium Foil packaging

1.0kg

Shelf Life 2 Years

#### Min. Ratio of Tocols









- 70% Tocotrienols
- 20% Tocopherols

Total tocols (tocotrienols and tocopherols), minimum of 200mg/g



#### **Physical and Chemical Properties**

- Light yellow colour powder
- Neutral odour and taste
- Water dispersible
- <5% loss on drying

#### More Versatile

#### Water dispersibility

allows it to mix well with various formulations.

#### **Heat/Colour Stability**

Oil encapsulated into powder enhances stability properties.

#### **Microbial Properties**

#### **Total Plate Count**

Not more than 1,000 cfu/g

#### **Coliforms**

## Gold Tri.E™ 30P (Powder)



#### **Features and Benefits**

Contains a minimum of **30%** tocopherols & tocotrienols

Available in Aluminium Foil packaging

#### 1.0kg

Shelf Life

2 Years

#### Min. Ratio of Tocols







- 70% Tocotrienols
- 20% Tocopherols

Total tocols (tocotrienols and tocopherols), minimum of 300mg/g



#### **Physical and Chemical Properties**

- Light yellow colour powder
- Neutral odour and taste
- Water dispersible
- <5% loss on drying

#### More Versatile

#### Water dispersibility

allows it to mix well with various formulations.

#### **Heat/Colour Stability**

Oil encapsulated into powder enhances stability properties.

#### **Microbial Properties**

#### **Total Plate Count**

Not more than 1,000 cfu/g

#### Coliforms

# GOLD TRI.E'S VERSATILE RANGE

Gold Tri.E™ 50 (Liquid)



#### **Features and Benefits**

Contains a minimum of **50%** tocopherols & tocotrienols

Available in Aluminium Canister

1.0kg | 5.0kg | 10.0kg

Shelf Life

3 Years

#### Min. Ratio of Tocols







- 70% Tocotrienols
- 20% Tocopherols

Total tocols (tocotrienols and tocopherols), minimum of 500mg/g

#### **Physical and Chemical Properties**

- Amber liquid
- Neutral odour and taste
- Soluble in oil
- < 1.0 on moisture content (%)
- < 5.0 on acid value, AV (mgKOH/g)
- < 10.0 on peroxide value (meg/kg)

Allows for higher potency

More superior bioavailability



#### **Microbial Properties**

#### **Total Plate Count**

Not more than 1,000 cfu/g

#### **Coliforms**

## Gold Tri.E™ 70 (Liquid)



#### **Features and Benefits**

Contains a minimum of **70%** tocopherols & tocotrienols

Available in Aluminium Canister

1.0kg | 5.0kg | 10.0kg

Shelf Life **3 Years** 

#### Min. Ratio of Tocols







- 70% Tocotrienols
- 20% Tocopherols

Total tocols (tocotrienols and tocopherols), minimum of 700mg/g

#### **Physical and Chemical Properties**

- Amber liquid
- Neutral odour and taste
- Soluble in oil
- < 1.0 on moisture content (%)
- < 5.0 on acid value, AV (mgKOH/g)
- < 10.0 on peroxide value (meg/kg)

Allows for higher potency

More superior bioavailability



**Total Plate Count** 

Not more than 1,000 cfu/g

GOLD TRILE

**Coliforms** 



# GOLD TRI.E™ Product Reference Guide

Premium phytopower ingredients at your fingertips

		Gold Tri. E (Powder)		Gold Tri. E (Liquid)	
		20P	30P	50	70
Features & Benefits	Minimum percentage of tocols	20%	30%	50%	70%
	Min. Ratio of tocols Total tocols (tocotrienols and	70% Tocotrienols		70% Tocotrienols	
	tocopherols)	20% Tocopherols		20% Tocopherols	
	Available in aluminium foil	1.0kg		1.0kg	
	(KG)			5.0kg 10.0kg	
	Shelf life	2 Years		3 Years	
Physical & Chemical Properties	Appearance & colour	Light yellow, powder		Amber liquid	
	Odour & taste	Neutral		Neutral	
	Solubility / Dispersibility	Water dispersible		Oil-soluble	
	Loss on drying	<5% loss		-	
	Heat stability	Heat Stable		-	
	Moisture content (%)	<5% loss on drying		Not more than 1.0	
	Acid Value, AV (mgKOH/g)	-		Not more than 5.0	
	Peroxide value (mEq/kg)	-		Not more than 10.0	

# GOLD TRI.E™ Product Reference Guide

Premium phytopower ingredients at your fingertips

		Gold Tri. I	Gold Tri. E (Powder)		Gold Tri. E (Liquid)	
		20P	30P	50	70	
Microbial property	Total plate count	Not more than 1,000 cfu/g		Not more than 1,000 cfu/g		
	Coliforms	Negative		Negative		
Application within Industries	Industries	<ul> <li>Cosmeceuticals</li> <li>Nutraceuticals</li> <li>Food &amp; beverages (as functional ingredients)</li> <li>Dietary Supplement</li> <li>Animal &amp; pet nutrition</li> </ul>		<ul> <li>Cosmeceuticals</li> <li>Nutraceuticals</li> <li>Food &amp; beverages     (as functional ingredients)</li> <li>Dietary Supplement</li> <li>Animal &amp; pet nutrition</li> </ul>		
	Suitable applications	<ul> <li>Functional beverages:         beauty drink, health and sports         drink, etc.</li> <li>Functional food:         geriatric products and specialty         foods, animal nutrition &amp; pet         food etc.</li> <li>Supplements:         Direct compression type         products like tablets and hard         capsules, effervescent products         etc.</li> <li>Cosmetics:         sunscreen, compressed /         compact powders and certain         specialties such as lip care         products</li> </ul>		<ul> <li>Dietary supplements:         <ul> <li>(50) Single ingredient, combo ingredients &amp; (70) High dose capsule</li> </ul> </li> <li>Personal care and cosmetic products:         <ul> <li>Anti-ageing products, sunscreen/sunblock, facial wash, hair serum, nail care, lip balm, lipstick, tooth paste and other oral care products, ointments, massage oil etc.</li> </ul> </li> <li>Functional Food:         <ul> <li>cereal bar and granola, healthy/nutritional &amp; flavoured oil, healthy dressing and spreads, animal nutrition &amp; pet food etc.</li> </ul> </li> </ul>		
		Note: The concentra formulation	Note: The concentration is based on its formulation		Note: The concentration is based on its formulation	

## **ACCREDITATIONS**

Tocotrienols are GRAS Certified

















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