Plant-Based Tocotrienols from Oil Palm (Elaeis guineensis) – 20–70%

Elaeis guineensis · Arecaceae

DOCUMENT	PRODUCT CODE	DOCUMENT NO.	REVISION	PRODUCT FORM
Technical Data Sheet	AP0439	TDS-AP0439	1.0 · 24 October 2026	Plant-Derived Vitamin & Mineral

1 Product description

Oil Palm extract is produced from the fruit of Elaeis guineensis (Arecaceae family) and supplied as a plant-derived nutrient concentrate, standardized to Tocotrienols. Available grades: 20%, 35%, 70%. Typical sourcing: Malaysia, Indonesia. Intended for B2B formulation in nutraceuticals & supplements, cosmetics & personal care.

20% 35% 70%

2 Identification

Botanical source	*Elaeis guineensis* (Arecaceae)
Common name(s)	Oil palm
Plant part used	Fruit
Typical origin	Malaysia, Indonesia
Marker compound	Tocotrienols (Vitamin E (tocotrienols))
Manufacturing process	Water and/or hydro-alcoholic (ethanol) extraction, concentration and spray-drying; the solvent system for each grade is stated on the CoA
Standardisation	20–70% (HPLC)
Assay method	HPLC
Pharmacopoeia & standards	USP

3 Specification

PARAMETER	SPECIFICATION	METHOD
Appearance	Off-white to light tan powder	Visual
Odour	Characteristic	Organoleptic
Identification	Conforms (HPTLC / HPLC fingerprint vs. reference)	HPTLC / HPLC
Assay – Tocotrienols	Not less than the labelled grade (20%, 35%, 70%)	HPLC
Loss on drying	≤ 5.0%	USP ‹731›
Total ash	Report	USP ‹561›
Particle size	≥ 95% through 80 mesh (180 µm)	USP ‹786›
Bulk density	Report (typically 0.40–0.70 g/mL)	USP ‹616›
Residual solvents	Complies with ICH Q3C / USP ‹467›	GC-HS
Lead (Pb)	≤ 3.0 mg/kg	ICP-MS
Arsenic (As)	≤ 2.0 mg/kg	ICP-MS
Cadmium (Cd)	≤ 1.0 mg/kg	ICP-MS
Mercury (Hg)	≤ 0.1 mg/kg	ICP-MS
Pesticide residues	Complies with USP ‹561› and Regulation (EC) No 396/2005	GC-MS/MS, LC-MS/MS
Aflatoxins	B1 ≤ 2 µg/kg; sum of B1, B2, G1, G2 ≤ 4 µg/kg	HPLC-FLD
Total aerobic microbial count	≤ 10,000 cfu/g	USP ‹2021›

Yeasts & moulds	≤ 1,000 cfu/g	USP ‹2021›
Escherichia coli	Absent in 10 g	USP ‹2022›
Salmonella spp.	Absent in 25 g	USP ‹2022›
Staphylococcus aureus	Absent in 10 g	USP ‹2022›

Limits above are the standard release specification for this product class. Each lot is released against its Certificate of Analysis, which is the governing document and is available on request.

4 Grades & pack sizes

GRADE	SKU PREFIX	PACK SIZES
20%	AP0439-20	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg
35%	AP0439-35	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg
70%	AP0439-70	Sample (50 g) · 250 g · 1 Kg · 5 Kg · 25 Kg

Made-to-order grades: 35%.

5 Packaging

- Samples: food-grade HDPE jar or aluminium-laminate pouch.
- 250 g – 1 Kg: food-grade LDPE bag sealed in an aluminium-laminate pouch.
- 5 Kg – 25 Kg: double food-grade LDPE bags in a fibre drum or HDPE pail.
- Packaging may vary by lot and is stated on the packing list.

6 Storage & shelf life

- Shelf life: 24 months from date of manufacture in the original, unopened packaging.
- Store in a cool (below 25 °C), dry place, protected from light.
- Hygroscopic: reseal immediately after use and minimise exposure to humid air.

7 Applications

Industries	Nutraceuticals & Supplements, Cosmetics & Personal Care
Formulation focus	Antioxidant & Healthy Ageing, Skin & Hair Care
Traditional systems	African traditional

Use levels depend on the finished product and the target market. The customer is responsible for establishing safe and permitted use levels and for any claims made on finished products.

8 Regulatory & compliance

- Pharmacopoeia / standard references: USP.
- Allergen information: not derived from a source listed in Annex II of Regulation (EU) No 1169/2011.
- Regulatory status for food, supplement, cosmetic or pharmaceutical use (e.g. EU novel food, US NDI/GRAS, FSSAI) must be confirmed by the customer for the intended market and use.

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