



INTABIOTECH

Natural Vitamin-E

Product Catalogue

www.intabiotech.com

Technical Catalog of Vitamin E and Phytosterols

Complete commercial portfolio of INTABIOTECH:

Consists of **29 unique grades**, **7 main technical families**.

This document accurately organizes and describes each product line, its analytical specifications, packaging formats, and application segments, serving as a technical reference for industrial buyers and R&D teams on the advantages of our Vitamin E and related product range.

29

Unique Grades

Distinct commercial references in the catalog

7

Technical Families

Groupings by chemical structure and function

24

Avg. Shelf Life (Months)

Declared stability across all families

**Vitamin E and derivatives for food,
nutraceutical, cosmetic, feed, and
biopharma industries
by INTABIOTECH**

INTABIOTECH



Natural D-Alpha-Tocopherol — Free Vitamin E

CAS 59-02-9

RRR-A-TOCOPHEROL

Natural d-alpha-tocopherol in free form constitutes the largest family in the catalog, with **eight commercial references** ranging from 1,000 to 1,430 IU/g and a microencapsulated powder at 500 IU/g. This is the RRR-alpha-tocopherol chemical form, with an oily, transparent appearance and coloration ranging from light yellow to reddish brown. All liquid products are packaged under nitrogen atmosphere and require storage protected from light, heat, and oxygen to preserve their potency throughout the declared 24-month shelf life.

Declared applications include food fortification, food supplements, cosmetics, pharmaceutical formulations, and dry premixes. The microencapsulated powder range (WB-Powder 500 IU) expands access to dry blends, tablets, and premixes where handling oils is problematic.

Reference	Potency	d-α-tocopherol	Form	Packaging
WB-1000	1,000 IU/g	≥67.15%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-1043	1,043 IU/g	≥70.0%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-1100	1,100 IU/g	≥73.83%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-1300	1,300 IU/g	≥87.25%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-1340	1,340 IU/g	≥90.0%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-1350	1,350 IU/g	≥90.6%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-1430	1,430 IU/g	≥96.0%	Oily liquid	10–200 kg; IBC 900/950 kg
WB-Powder 500 IU	500 IU/g	≥33.5%	Microencapsulated powder	25 kg fiber drum, aluminized bag

Natural D-Delta-Tocopherol

CAS 119-13-1

LIPID-SOLUBLE ANTIOXIDANT

Natural d-delta-tocopherol is the tocopherol fraction with the highest specific antioxidant activity against lipid oxidation. Unlike alpha-tocopherol, whose primary function is predominantly nutritional, delta-tocopherol stands out as a protective functional ingredient in matrices with high oxidative susceptibility: polyunsaturated oils, lipid emulsions, omega-3 encapsulates, and high-end cosmetic formulations.

The catalog features two grades differentiated by their concentration in delta-tocopherol and total tocopherols. Both are presented as a transparent oily liquid ranging from yellow to reddish-brown in color, with a declared shelf life of 24 months. Packaging adapts to the required volume: from 1 kg aluminum bottles for laboratory and R&D use to 200 kg drums for industrial production.

DT-70 and DT-80 Specifications

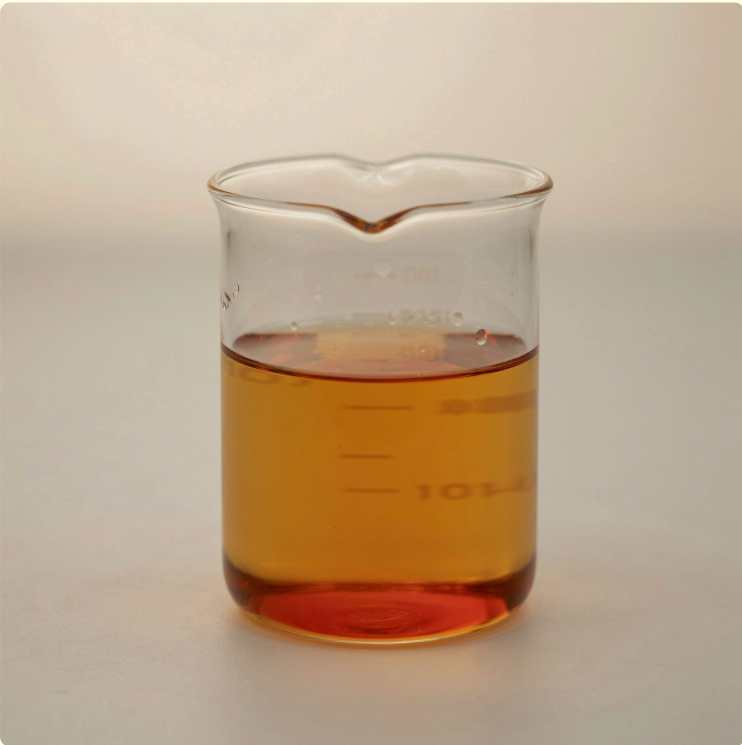
Ref.	Total tocopherols	d-δ-tocopherol
DT-70	≥80 %	≥70 %
DT-80	≥90 %	≥80 %

Form: Transparent oily liquid

Packaging: 1, 10, 20, 50, and 200 kg

Container types: Aluminum bottle, plastic drum, or steel drum depending on size

Shelf life: 24 months





Natural Mixed Tocopherols

INS 307 / E306

FOOD ANTIOXIDANT

Natural mixed tocopherols are the most versatile antioxidant extract in our catalog.

Identified as INS 307 and E306, they act as **natural preservatives of plant origin across a wide range of matrices: oils and fats, nuts, dry foods, meat products, pet food, and clean label formulations**. They are available in both **liquid form** and **microencapsulated powder**, with **five distinct liquid grades** differentiated by their total tocopherol concentration and homolog profile.

The indicative incorporation rate is 0.01–0.05% in fats and oils. This dose should be treated exclusively as a starting point: the optimal dose must be validated through specific oxidative stability studies that take into account the matrix, the thermal process applied, water activity, residual oxygen, and the target commercial shelf life.

Liquid Grades – Tocopherol Profile

Ref.	Total	Declared Composition
MT-25	≥25 %	d-α 1.4–5.0 %; d-β ≤0.5 %; d-γ 12.5–16.5 %; d-δ 5–9 %
MT-50	≥50 %	d-(β+γ+δ) ≥80 % of the tocopherol fraction
MT-70	≥70 %	d-(β+γ+δ) ≥80 % of the tocopherol fraction
MT-90	≥90 %	d-α 5–18 %; d-β ≤2 %; d-γ 45–60 %; d-δ 18–33 %
MT-95	≥95 %	d-α 14 %; d-β ≤2 %; d-γ 60 %; d-δ 24 %

Microencapsulated Powder Grades

Reference	Total	Packaging
MT-Powder 30 %	≥30 %	25 kg fiber drum, aluminized bag
MT-Powder 50 %	≥50 %	25 kg fiber drum, aluminized bag

The powder grades allow incorporation of the antioxidant into dry blends and low-moisture systems without the handling drawbacks associated with oil.

Natural D-Alpha-Tocopheryl Acetate

CAS 58-95-7

STABILIZED ESTERIFIED FORM

D-alpha-tocopheryl acetate is the esterified form of natural d-alpha-tocopherol: esterification of the phenolic hydroxyl group protects the molecule against oxidation during manufacturing and storage, while maintaining its biological bioavailability as the free form is released during digestion. This characteristic makes it the preferred choice for tablets, soft capsules, and premixes where process stability is critical.

This catalog offers **three liquid grades** with potencies of 1,000, 1,100, and 1,360 IU/g, and **three powder formats** intended for feed grade (340 IU), **cold water dispersible food grade** –CWD, 700 IU– and **food grade beadlet** (950 IU). All have a shelf life of 24 months.

Liquid acetate (viscous oily)

Reference	Potency	d-α-tocoph. acetate	Packaging
TA-1000 (70 %)	1,000 IU/g	≥73.53 %	10–200 kg; IBC
TA-1100 (80 %)	1,100 IU/g	≥80.88 %	10–200 kg; IBC
TA-1360 (96 %)	1,360 IU/g	≥96.0 %	10–200 kg; IBC

Microencapsulated powder acetate

Reference	Potency	Segment	Packaging
TA-Powder 340 IU	340 IU/g	Feed grade	Fiber drum 20 kg
TA-Powder 700 IU	700 IU/g	Food, CWD	Bag/drum 10–20 kg
TA-Powder 950 IU	950 IU/g	Food, beadlet	Drum 5/25 kg

Superior oxidative stability

Esterification of the phenolic group prevents auto-oxidation, extending the ingredient's shelf life compared to free tocopherol in processed matrices.

Format versatility

Available as a viscous oil for soft encapsulation and as a powder (CWD, beadlet) for tablets, dry blends, and premixes.

Multi-channel coverage

The TA-Powder 340 IU reference covers the feed grade segment, while the 700 and 950 IU grades serve regulated food grade applications.



D-Alpha Tocopheryl Acid Succinate

CAS 4345-03-3

SOLID CRYSTALLINE POWDER

D-alpha tocopheryl acid succinate represents the only solid crystalline form of vitamin E in the catalog, requiring no encapsulation or load carrier. Its appearance is a white or off-white powder with a declared melting point of 72–78 °C and a minimum assay of 96%. This combination makes it ideal for high-potency solid formulations manufactured by direct compression, where the absence of solvents or lipid carriers is a technological or regulatory requirement.

The general specification establishes a minimum assay of 1,162 IU/g, while the two available commercial grades – TS-1185 and TS-1210 – differ in their declared nominal potency, offering flexibility to adjust the active load in tablets and hard capsules without modifying the batch size.

Technical Specifications – TS-1185 and TS-1210

TS-1185 Potency	1,185 IU/g
TS-1210 Potency	1,210 IU/g
Content	≥96.0%
Appearance	White crystalline powder
Melting point	72–78 °C
Packaging	25 kg fiber drum with inner bag
Shelf life	24 months

Main Applications

→ Direct Compression

Suitable powder flow for high-speed tablet lines; wet granulation is not required.

→ Hard Capsules

Compatible with powder filling of HPMC and gelatin capsules; excellent stability at room temperature.

→ High-Potency Supplements

High purity (≥96%) allows for formulating elevated doses with minimal excipient load in the formulation.

Natural Tocotrienols

RICE BRAN OIL

PALM OIL

Tocotrienols are the vitamin E fraction of greatest interest in current biomedical research, distinguished from tocopherols by the presence of an unsaturated isoprenoid chain. The catalog features raw materials from **two distinct plant sources**: *rice bran oil* and *palm oil*, in liquid format and microencapsulated powder. It is important to note that the percentage nomenclature in these references designates the combined content of tocopherols + tocotrienols, not the percentage of tocotrienols alone.

Rice Bran Tocotrienols

Reference	Total Tof+Ttr	Tocotrienols	Tocopherols
TT-Oil 50 % Rice-Bran	≥50 %	≥20 %	≤30 %

Palm Tocotrienols

Reference	Total Tof+Ttr	Tocotrienols	Tocopherols
TT-Oil 80 % Palm	≥80 %	≥32 %	≤48 %
TT-Powder 20 % Palm	≥20 %	≥14 %	≤6 %

Powder: Bulk density 0.4–0.6 g/ml; ≥95 % passage through mesh 40. 1 kg bag or 20 kg fiber drum.

Form: Amber oil. **Packaging:** 1 kg aluminum bottle; 20 kg steel drum.

 The designation "50 %" or "80 %" in tocotrienols refers to the **combined content of tocopherols + tocotrienols**, not the percentage of tocotrienols exclusively. It is advised to verify individual total tocotrienol values before any nutritional declaration or biological activity claim on labeling.



200002



100001



200104



200103



200202



100102



10010001



10010002

Phytosterols – PS-95

SOY ORIGIN

PLANT STEROLS

PS-95 is a **phytosterol concentrate obtained from the deodorization distillate of soybean oil**, presented as a white powder with a **total sterol content above 95%**. Phytosterols are compounds structurally analogous to cholesterol that, by competing with its intestinal absorption, constitute a functional ingredient with scientific backing and regulatory recognition for the reduction of LDL cholesterol in enriched foods.

Its insolubility in water and solubility in oils and organic solvents determines the technological strategies for incorporation: emulsification, lipid encapsulation, or dispersion in fatty phases. Declared applications include margarines and spreads, bakery products, beverages with emulsifying systems, and functional cosmetics. Packaging in 500 kg big bags facilitates procurement for large-volume industrial applications.

Declared sterol profile

Total sterols >95% – Overall purity of the concentrate	Beta-sitosterol >40% – Major fraction	Campesterol >20% – Second fraction	Stigmasterol >15% – Third fraction
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Physicochemical specifications

Appearance	White powder
Melting point	130–142 °C
Loss on drying	<2%
Ash	<0.3%
Water solubility	Insoluble
Oil solubility	Soluble
Packaging	25 kg paper bag; 25 kg fiber drum; 500 kg big bag
Shelf life	24 months

Commercial Contact

Our commercial team is ready to assist you



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