TECHNICAL DATA SHEET

D-alpha Tocopherol

1. Product Information

Item	Specification
Product Name	D-alpha Tocopherol
Specification	1490 IU
Test Standard	USP-NF 2026
Appearance	Clear, brownish red to slight yellow, oily liquid
Form	Oily liquid

2. Product Description

D-alpha Tocopherol 1490 IU is a natural d-alpha tocopherol presented in oily liquid form. It has high alpha tocopherol activity, complying with USP-NF 2026 monograph requirements.

The product conforms to the requirements of USP-NF 2026.

3. Technical Specifications

Test Item	Specification
Appearance	Clear, brownish red to slight yellow, oily liquid
Identification – Color Reaction	Positive
Identification – Specific Rotation	≥ +24°
Identification – Retention Time	The retention time of the major peak in the test solution is the same as that of the standard preparation
Acidity	≤ 1.0 ml
Assay	96.0%~102.0%；≥1430 IU/g
Benzo(a)Pyrene	≤ 2 ppb

Test Item	Specification
Solvent residue-Toluene	≤ 890 ppm
Heavy Metals - Lead	≤ 1 mg/kg
Heavy Metals - Arsenic	≤ 1 mg/kg
Heavy Metals - Cadmium	≤ 1 mg/kg
Heavy Metals - Mercury	≤ 0.1 mg/kg
Aerobic Plate Count	≤ 1000 cfu/g
Yeast and Molds	≤ 100 cfu/g
Escherichia Coli	Negative/g
Salmonella	Negative/25g
Staphylococcus Aureus	Negative/25g

4. Typical Applications

D-alpha Tocopherol 1490 IU can be used as a source of natural d-alpha tocopherol in applications such as:

- Food and nutritional products
- Dietary supplements
- Nutraceutical formulations
- Food and feed formulations
- Antioxidant applications
- Other applications requiring high activity d-alpha tocopherol

5. Quality & Compliance

The product is manufactured and tested according to the applicable requirements of:

- USP-NF 2026

The product specification includes identification, assay, physical characteristics, acidity, heavy metals, solvent residue, Benzo(a)Pyrene and microbiological requirements.

6. Storage

Store in a cool, dry place, protected from direct sunlight and excessive heat. Keep the container tightly closed when not in use.

7. Shelf Life

24 months from the manufacturing date when stored under recommended conditions.

8. Packaging

Standard packaging can be provided according to customer requirements.