

## Technical Data Sheet (TDS)

Issue Date: 09 FEB 2026 Version: V1.0

### 1. Product Overview

- **Product Name:** Panax Notoginseng Extract
- **Common Name:** Sanqi Extract / Notoginseng Root Extract
- **CAS Number:** 94279-78-4
- **Botanical Source:** *Panax notoginseng* (Burk.) F.H. Chen root
- **Extraction Process:** Water-alcohol dual extraction → macroporous resin purification → spray drying
- **Core Active Ingredients:** Total Ginsenosides, Notoginsenoside R1, Ginsenoside Rg1, Ginsenoside Rb1, Panax Notoginseng Polysaccharides
- **Molecular Weight:** Variable (500-10000 Da, natural biological mixture)
- **Product Trait:** Light yellow to pale brown fine amorphous powder with mild natural notoginseng characteristic fragrance; good fluidity, anti-caking, easy to mix with other raw materials. This product is a high-purity natural plant extract, non-toxic, non-irritating, fully biodegradable, and stable under recommended storage conditions. It has obvious biological activity and is widely used in health food, pharmaceutical intermediates, cosmetics and functional food production.

### 2. Technical Specifications

All indicators comply with the national and industrial standards for plant extracts, and each batch is accompanied by a qualified COA test report.

Test Item	Specification	Test Method
Appearance	Light yellow to pale brown fine amorphous powder	Visual Inspection
Odor	Mild natural notoginseng characteristic fragrance	Olfactory Inspection
Total Ginsenosides Content	≥ 80.0%	HPLC
Notoginsenoside R1 Content	≥ 5.0%	HPLC
pH Value (1% aqueous solution, 25°C)	5.5-7.5	Digital pH Meter
Loss on Drying	≤ 5.0%	105°C constant weight method (3h)
Ash Content	≤ 5.0%	550±25°C dry ashing method
Heavy Metals (Pb)	≤ 5 ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	Atomic Fluorescence Spectrometry (AFS)
Total Bacterial Count	≤ 100 CFU/g	Plate Count Method
E. coli	Negative	Microbiological Culture Detection
Salmonella	Negative	Microbiological Culture Detection
Particle Size	95% passing 80 mesh	Standard Sieve Method
Water Solubility	Slightly soluble in water; freely soluble in 70% ethanol	Solubility Test
Storage Stability	24 months (unopened, standard conditions)	Accelerated Stability Test

### 3. Product Advantages

1. **High Purity & Rich Active Ingredients:** Total ginsenosides ≥80%, Notoginsenoside R1 ≥5%, rich in rare saponins (Rg1, Rb1) and polysaccharides; high extraction efficiency, no impurity residue, guaranteed product efficacy.



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2. **Natural & Safe:** Sourced from qualified *Panax notoginseng* planting bases, no pesticide residue, no chemical additives; compliant with FDA GRAS and EU food supplement regulations, safe for long-term use.
3. **Excellent Processability:** Fine powder with good fluidity and anti-caking property; soluble in 70% ethanol, compatible with most excipients, suitable for water-based/oil-based formulation processes, easy for industrial production.
4. **Stable Quality:** Strict quality control in the whole production process (ISO 9001/GMP compliant); small batch-to-batch difference, active ingredients not easy to degrade under standard storage conditions.

## 4. Application Fields

### 4.1 Health Food & Dietary Supplements

As a core functional additive, it is used to produce capsules, tablets, oral liquids, granules, solid beverages, etc.; it is suitable for cardiovascular and cerebrovascular health care, blood circulation promotion and stasis removal, anti-fatigue and immunity enhancement formulations.

### 4.2 Pharmaceutical Intermediates

Raw material for Chinese and Western medicine preparations; auxiliary treatment of cardiovascular and cerebrovascular diseases, blood stasis syndrome, trauma swelling and pain, etc.; can be used in the development of proprietary Chinese medicines and pharmaceutical preparations.

## 5. Usage & Dosage

### 5.1 Recommended Dosage (based on pure extract, adjustable according to product formulation)

- Health Food: 0.5-2.0% of the total formula
- Cosmetics: 0.1-1.0% of the total formula
- Functional Food: 0.05-0.5% of the total formula
- Pharmaceutical Intermediates: Determined according to drug preparation process and clinical requirements

## 6. Packaging & Storage

### 6.1 Packaging Specifications

- 1 kg/bag: Aluminum foil vacuum bag, outer packing with corrugated carton
- 5 kg/drum / 10 kg/drum: HDPE food-grade drum with aluminum foil inner lining (sealed)
- 25 kg/drum: HDPE food-grade drum with aluminum foil inner lining (sealed)
- Custom packaging (100g/500g) is available for R&D and small-batch production.

### 6.2 Storage Conditions

- Store in a cool, dark, dry and well-ventilated warehouse; storage temperature  $\leq 25^{\circ}\text{C}$ , relative humidity  $\leq 60\%$ .
- Keep the container tightly closed to prevent moisture absorption, oxidation and microbial contamination.
- Store separately from strong acids, strong bases, oxidizing agents and high-concentration organic solvents to avoid chemical reactions.

## 7. Safety & Protection

- The product is a natural non-hazardous plant extract, safe for human use in the recommended dosage; no acute/chronic toxicity, no skin/respiratory sensitization.
- For large-scale production and handling: wear N95 dust mask and safety glasses to avoid dust inhalation and eye contact; wear nitrile rubber gloves for prolonged skin contact.
- In case of accidental eye contact: rinse thoroughly with plenty of clean water for 5-10 minutes; consult a doctor if irritation persists (rare in normal use).

## 8. Quality Assurance

1. The production process complies with ISO 9001 quality management system, ISO 14001 environmental management system and GMP plant extract production standards.
2. Raw material *Panax notoginseng* is sourced from fixed planting bases, with strict raw material inspection (pesticide residue, heavy metal, microbial) to ensure qualified raw materials.
3. Each batch of product is strictly tested by a professional laboratory with complete test indicators; a detailed Certificate of Analysis (COA) is provided with the goods.