Technical Data Sheet (TDS)

1. Product Overview

Product Name: Nandrolone Phenylpropionate**English Name**: Nandrolone Phenylpropionate**CAS Number**: 62-90-8**Molecular Formula**: $C_{27}H_{34}O_3$**Molecular Weight**: 406.56 g/mol**Product Characteristics**: Synthetic anabolic-androgenic steroid (AAS), esterified form of nandrolone with phenylpropionic acid. White crystalline powder, insoluble in water, soluble in chloroform, ethanol and vegetable oils. Fast-acting anabolic steroid with moderate androgenic activity, exhibits strong muscle-building, anti-catabolic and bone-strengthening effects. Stable under normal storage conditions, suitable for pharmaceutical formulation and research use.

2. Technical Specifications (Complies with Industrial Standards)

Appearance: White to creamy white crystalline powderAssay (HPLC): ≥ 98.0%Melting Point: 93-99℃Loss on Drying: ≤ 0.5%Residue on Ignition: ≤ 0.1%Heavy Metals (Pb): ≤ 10 ppmHeavy Metals (As): ≤ 2 ppmRelated Substances (Total): ≤ 1.5%Related Substances (Single): ≤ 0.5%Optical Rotation (c=1, $CHCl_3$): +48° to +56°Solubility: Soluble in chloroform/ethanol, slightly soluble in vegetable oils, insoluble in waterStorage Stability: Stable for 24 months at 2-8℃ (sealed); stable for 12 months at room temperature (15-25℃)

3. Product Advantages

High Purity: Assay ≥98.0%, low single and total related substances, consistent quality.

Fast-Acting: Esterified form with rapid absorption and onset of action in vivo.

Good Solubility: Soluble in common organic solvents and vegetable oils, easy for injectable formulation.

Strong Anabolic Activity: High anabolic to androgenic ratio, minimal androgenic side effects.

Good Stability: Long shelf life under recommended storage conditions.

4. Application Fields

Pharmaceutical Industry: Raw material for veterinary and human injectable pharmaceutical formulations (for muscle wasting, osteoporosis, anemia).

Research & Development: Laboratory research on anabolic steroid activity, hormone mechanism and drug development.

Fine Chemicals: Intermediate for the synthesis of nandrolone derivatives and related steroids.

5. Usage Methods

Pharmaceutical Formulation: Dissolve in vegetable oil (e.g., sesame oil, cottonseed oil) with appropriate excipients to prepare injectable formulations; dosage adjusted based on pharmaceutical specifications.

Research Use: Prepare standard solutions with chloroform/ethanol for laboratory tests; dosage determined by research protocol.

Recommended Concentration: 50-200 mg/mL for injectable formulation (vegetable oil base).

6. Packaging & Storage

Packaging Specifications:

- 100 g/bottle (HDPE bottle with aluminum foil seal)
- 500 g/bottle (HDPE bottle with aluminum foil seal)
- 1 kg/tin can (sealed tin can with inner plastic bag)
- 5 kg/drum (fiber drum with inner plastic bag)
- Custom packaging available upon request.

Storage Conditions:

- Store in a cool, dry, dark place at 2-8℃, in a tightly sealed original container to avoid moisture and light.
- For short-term use (≤3 months), may be stored at 15-25℃ (room temperature), away from direct sunlight and heat.
- Keep away from open flame, oxidizing agents and strong acids/bases.
- Store separately from food, beverages, aquatic products and raw materials for edible use.**Shelf Life**: 24 months (2-8℃, unopened); 12 months (15-25℃, unopened).

7. Quality Assurance

- Manufactured in accordance with ISO 9001 quality management system and GMP guidelines for pharmaceutical raw materials.
- Each batch is fully tested and accompanied by a Certificate of Analysis (COA) to ensure compliance with industrial standards.
- Provide technical support for product formulation, solubility optimization and application.