

Technical Data Sheet (TDS)

Revision Date: 10 FEB 2026

Document No.: TDS-PYR-2026

1. Product Description

Pyridoxine Hydrochloride (Vitamin B6) is a water-soluble vitamin essential for human and animal nutrition. It acts as a coenzyme in numerous metabolic reactions, including amino acid metabolism and glycogen breakdown. Our product is manufactured to USP/FCC standards, ensuring high purity and bioavailability.

2. Technical Specifications

Parameter	Standard (USP/FCC)
Assay (dried basis)	≥ 99.0%
Appearance	White crystalline powder
Loss on Drying	≤ 0.5%
Residue on Ignition	≤ 0.1%
Heavy Metals (Pb)	≤ 5 ppm
Arsenic	≤ 1 ppm
pH (5% Solution)	2.4 - 3.0
Specific Rotation	+24.5° to +25.5°

3. Key Benefits

- High Purity:** Meets stringent international standards (USP/FCC).
- Excellent Solubility:** Freely soluble in water, easy to formulate.
- Stability:** Stable under neutral to acidic conditions; protected from light.
- Safety:** Non-toxic, essential nutrient with no side effects at recommended doses.

4. Applications

Industry	Application	Typical Dosage
Pharmaceuticals	Multivitamin tablets, injections, B-complex formulations.	10-50 mg/capsule
Food & Beverage	Fortified cereals, beverages, infant formula, nutritional bars.	1-5 mg/100g
Feed	Poultry, swine, and aquaculture feed to promote growth.	2-10 mg/kg feed
Cosmetics	Hair care products (prevents hair loss).	0.5-2.0% (w/w)

5. Handling & Formulation

- Solubility:** Dissolves rapidly in water. Solubility decreases in alcohol.
- Compatibility:** Compatible with most vitamins and minerals. Avoid strong alkaline conditions (degrades at pH > 7.5).
- Formulation Tip:** Add to water phase during production. Avoid prolonged heating above 100°C.

6. Packaging & Storage

- Packaging:**
 - 1kg/bottle, 5kg/drum (Food/Pharm Grade)



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- 25kg/fiber drum with inner double PE bag
- **Storage:** Store in a cool, dry place ($\leq 25^{\circ}\text{C}$) away from light and moisture.
- **Shelf Life:** 36 months from date of manufacture (unopened).

7. Quality Assurance

- Manufactured in an ISO 9001 and GMP certified facility.
- Each batch is accompanied by a Certificate of Analysis (COA).
- Conforms to REACH, TSCA, and China GB standards.



纳维盈医化科技
NEWAY SINOPHC TECH