

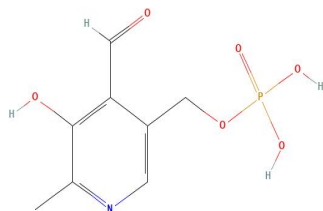


Technical Data Sheet

Tianjin Jincheng Biotechnology Co., Ltd.

Product Name: Pyridoxal-5-Phosphate Monohydrate

Chemical Structure:



Molecular Formula: $C_8H_{10}NO_6P \cdot H_2O$

Molecular Weight: 265.16

CAS No.: 41468-25-1

Specifications

Item	Limit	Analysis method
Description	Yellow or off-white solid	Visual
Identification	Retention time corresponds to the standard	HPLC
pH (0.25% in water)	2.6 - 3.0	pH meter
Loss on drying	Not more than 10.0%	USP <731>
Assay (on dried basis)	98.5% - 101.0%	HPLC
Melting point	140.0 - 145.0 °C	USP <741>
Solubility	Very slightly soluble in water, soluble in alkali	Visual
Particle size	Not less than 90% through 30 mesh	Sieve analysis
Heavy metals	Not more than 10 ppm	USP <231>
Cadmium	Not more than 0.5 ppm	ICP-MS
Arsenic	Not more than 1.5 ppm	ICP-MS
Lead	Not more than 0.5 ppm	ICP-MS
Mercury	Not more than 0.1 ppm	ICP-MS
Xylenes	Not more than 890 ppm	GC
Ethanol	Not more than 5,000 ppm	GC
Free vitamin B6	Not more than 0.05%	HPLC
Total plate count	Not more than 1,000 cfu/g	USP <61>
Yeast and mould	Not more than 100 cfu/g	USP <61>
Salmonella	Negative	USP <62>
E. coli	Negative	USP <62>
Staphylococcus aureus	Negative	USP <62>

Recommended shelf life: 2 years

External packing: Fibre drum, 25 kg net

Inner packing: Double-layer PE bag

Storage: Preserve in tight containers, protected from light, in a cool and dry place.

Note: Analytical methods refer to current USP general chapters and the manufacturer's in-house standard; this document is for reference only and the quality of each batch is subject to the COA supplied with the goods.

Preparation Date: Sep. 21, 2026 | Version: 1.0 | Prepared by: | Product code: JC-PLP-001