



CERTIFICATE OF ANALYSIS

Product Name:	Pyridoxal-5-Phosphate
Batch No.:	C042408810
Manufacture Date:	Aug. 06, 2024
Retest Date:	Aug. 06, 2027
Report Date:	Aug. 20, 2024
Packing Size:	25kg/Drum

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Description	slightly yellow or off-white powder	conforms
Identification	The retention time of the major peak of product corresponds to that of the standard	conforms
Solubility	Very slightly soluble in water, soluble in alkali-OH Soln.	conforms
Melting Point	140–145°C	144°C
Water by KF	≤10.0%	8.2%
pH (in 0.25% water)	2.6–3.0	2.8
Particle size (Mesh)	≥90% through 30 mesh	conforms
Free Vitamin B6	≤0.05%	0.03%

Heavy Metals

Analysis Item	Specification	Result
Heavy Metals	≤10 ppm	<10 ppm
Cadmium	≤0.5 ppm	0.063 ppm
Arsenic	≤1.5 ppm	<0.01 ppm
Lead	≤0.5 ppm	<0.02 ppm
Mercury	≤0.1 ppm	<0.005 ppm

Physical Properties

Analysis Item	Specification	Result
Bulk Density	—	0.39 g/ml
Tapped Density	—	0.68 g/ml

Residual Solvents

Analysis Item	Specification	Result
Toluene	≤890 ppm	2 ppm
Ethanol	≤5000 ppm	32 ppm

Assay

Analysis Item	Specification	Result
Assay (as C ₈ H ₁₀ NO ₆ P, on dry basis)	98.5–101.0%	99.0%

Microbiological Tests

Analysis Item	Specification	Result
Total Plate Count	≤1000 CFU/g	<100 CFU/g
Yeast & Mold	≤100 CFU/g	<10 CFU/g
Salmonella	Negative	Negative
E. Coli	Negative	Negative
Staphylococcus Aureus	Negative	Negative

Conclusion: The product conforms to the enterprise standard.