



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

Quality Release Date: 26 FEB 2026 Issue Date: 26 FEB 2026

### Product Information

Product Name Piperazine Phosphate  
Product Number PIP-20260226  
Batch Number PIP-SH2026022601  
Brand SIGALD  
CAS Number 85547-56-4  
MDL Number MFCD00143816  
Formula  $C_{29}H_{32}Cl_2N_6 \cdot 4H_3PO_4$   
Formula Weight 810.56 g/mol

### Test Results

Test	Specification (Pharmacopoeial/Industrial Standard)	Result	Unit	Test Method
Appearance (Color)	White to pale yellow	Off-white	-	Visual Inspection
Appearance (Form)	Crystalline powder	Crystalline powder	-	Visual Inspection
Assay (Purity, on dry basis)	≥ 98.0%	98.9%	%	High Performance Liquid Chromatography (HPLC)
Loss on Drying	≤ 2.0%	1.4%	%	Gravimetric Method (105°C, 2h)
Residue on Ignition	≤ 0.1%	0.03%	%	Ignition at 600°C±50°C
Heavy Metals (Pb)	≤ 5 ppm	1.0 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Heavy Metals (As)	≤ 1 ppm	0.2 ppm	ppm	Atomic Fluorescence Spectrometry (AFS)
pH Value (1% aqueous solution, 25°C)	3.5-4.5	4.0	-	Digital pH Meter
Melting Point	235-240°C (decomp)	238°C	°C	Melting Point Apparatus
Solubility in Water (25°C)	Freely soluble	1g/1.8mL	g/mL	Solubility Test
Related Substances	≤ 1.5%	0.6%	%	HPLC
Residual Solvents	Meets USP <467> limits	Compliant	-	Gas Chromatography (GC)
Phosphate Content	38.0-40.0%	39.1%	%	Volumetric Method (EDTA titration)
Total Aerobic Count	≤ 100 CFU/g	20 CFU/g	CFU/g	Plate Count Method
E. coli	Negative	Negative	-	Microbiological Detection
Supplier Information	Confirmed	Confirmed	-	-
Registered Trademark	Confirmed	Confirmed	-	-

### Certification

This batch of product has been tested in accordance with Chinese Pharmacopoeia (CP) and international pharmacopoeial standards for Piperazine Phosphate and meets all specified requirements. It is qualified for use.