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CERTIFICATE OF ANALYSIS

Product Name	Spermidine Trihydrochloride	Specification	Company Standard
CAS No.	334-50-9	Manufacture Date	2024.5.24
Quantity	300KG	Analysis Date	2024.5.30
Batch No.	ES-240524	Expiry Date	2026.5.23
Items	Specifications	Results	
Assay (HPLC)	≥98%	99.46%	
Appearance	White to off-white powder	Complies	
Odor	Characteristic	Complies	
Identification	¹ HNMR Confirms to Structure	Complies	
Melting Point	257°C ~ 259°C	257.5-258.9°C	
Loss on Drying	≤ 1.0%	0.41%	
Residue on Ignition	≤ 0.2%	0.08%	
Solubility	Soluble in Water	Complies	
Heavy Metal			
Total Heavy Metals	≤ 10 ppm	Complies	
Lead (Pb)	≤ 0.5 ppm	Complies	
Arsenic (As)	≤ 0.5 ppm	Complies	
Cadmium (Cd)	≤ 0.5 ppm	Complies	
Mercury (Hg)	≤ 0.1 ppm	Complies	
Microbiological Test			
Total Plate Count	≤ 1000 CFU/g	Complies	
Yeast & Mold	≤ 100 CFU/g	Complies	
E.Coli	Absence	Absence	
Salmonella	Absence	Absence	
Staphylococcus Aureus	Absence	Absence	
Package	Packed in plastic bag inside and aluminum foil bag outside.		
Storage	Store in a cool and dry place, keep away from strong light and heat.		
Shelf Life	Two years when properly stored.		
Conclusion	Sample Qualified.		

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