



Wuhan HengHeDa Pharm Co., Ltd

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Wuhan Economic& Technological Development Zone, Wuhan, China

CERTIFICATE OF ANALYSIS

Product name	Spermidine Trihydrochloride	 <chem>NCCCCN(CCCN)N</chem>
CAS NO	334-50-9	
Molecular formula	C7H22Cl3N3	
Molecular weight	254.63	
Quantity	5kg	
Batch NO	HHD20210725	
Production date	2021.07.25	
Expiry Date	2023.07.24	
Test based on enterprise standard		
Test Item	Specification	Result
Appearance	White to off-white powder	Conforms
Identification	¹ HNMR confirms to structure	Conforms
Solubility	Soluble in water	Conforms
Loss on drying	≤1.0%	0.42%
Residue on ignition	≤0.2%	0.07%
Heavy metals	≤10ppm	Conforms
Pb	≤0.5ppm	Conforms
As	≤0.15ppm	Conforms

Cd	$\leq 2.5\text{ppm}$	Conforms
Hg	$\leq 1.5\text{ppm}$	Conforms
Purity (GC)	$\geq 98.0\%$	99.20%

Storage	Store in a well-closed and dry place with room temperature and no direct sun light.
Shelf life	2 years when properly stored.
Conclusion: This product complies with above specification.	

Inspector

Shen Wu

Director

King Yang

