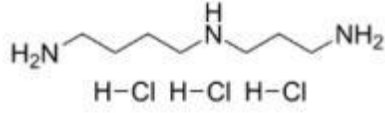


## CERTIFICATE OF ANALYSIS

Product name	Spermidine Trihydrochloride		
Molecular formula	C <sub>7</sub> H <sub>19</sub> N <sub>3</sub> · 3HCl		
Cas No.	334-50-9	Batch No.	MLP-SPD-20220324
Quantity	60kg	MFG. date	2022.03.24
Test date	2022.03.29	Retest. date	2024.03.23

Testing Items	Specifications	Results
Appearance	White to off-white powder	Conforms
Identification	<sup>1</sup> HNMR confirms to structure	Conforms
Solubility	Soluble in water	Conforms
Loss on drying	≤1.0%	0.42%
Residue on ignition	≤0.2%	0.05%
Melting point	257-259°C	257.2-258.7°C
Heavy metals	≤10ppm	Conforms
Pb	≤0.5ppm	Conforms
As	≤0.15ppm	Conforms
Cd	≤2.5ppm	Conforms
Hg	≤1.5ppm	Conforms
Purity (GC)	≥98.0%	98.75%
Conclusion	This product conforms to the specifications.	
Storage	Store in a well-closed and dry place with room temperature and no direct sun light.	

**QC Manager: Xiaodong Ma**
**QA: Bin Zhang**

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