

## CERTIFICATE OF ANALYSIS

<b>Product Name:</b>	Spermidine Trihydrochloride	<b>Batch Number:</b>	YT20210729
<b>CAS No.:</b>	334-50-9	<b>Manufacture Date:</b>	Jul.29,2021
<b>Packing:</b>	25kg/Drum	<b>Analysis Date:</b>	Aug.03,2021
<b>Quantity:</b>	30kgs	<b>Expiry Date:</b>	Jul.28,2023

ITEM	STANDARD	TEST RESULT
Assay(GC)	≥98%	99.72%
<b>Physical &amp; Chemical</b>		
Appearance	White to off-white powder	Complies
Identification	<sup>1</sup> HNMR confirms to structure	Complies
Solubility	Soluble in water	Complies
Loss on drying	≤1.0%	Complies
Residue on ignition	≤0.2%	0.09%
<b>Heavy Metal</b>		
Total Heavy Metals	≤10ppm	<10ppm
As	≤0.15ppm	<0.15ppm
Hg	≤1.50ppm	<1.50ppm
Pb	≤0.50ppm	<0.50ppm
<b>Microbiological Test</b>		
Total Plate Count	≤100cfu/g	<10cfu/g
Fungi	≤100cfu/g	<10cfu/g
E.Coli	≤10cfu/g	<0.3cfu/g
Salmonella	Negative	Negative
Staphylococcus	Negative	Negative
<b>Conclusion</b>	Conform with specification	
<b>Storage</b>	Store in cool and dry places. Keep away from strong light and heat	
<b>Packing</b>	By 25kgs/Drum, inner by double plastic bag	
<b>Shelf Life</b>	24 months under the above condition, and in it's original package	

**Quality Assurance Officer: Weiqiang Hu**

