



Certificate of Analysis

Product name	Spermidine Trihydrochloride	CAS	334-50-9
Batch No	YGPF24040801	Batch size	37 kg
Mfg date	08 Apr 2024		

Item	Specification	Result	Test method
Physical / Chemical Control			
Appearance	White to off-white crystalline powder	Conforms	Visual
Purity	98.0% Min	99.1%	GC
Solubility	Soluble in water	Conforms	USP<1236>
Loss on drying	1.0% Max	0.32%	USP<731>
Residue on ignition	1.0% Max	0.07%	USP<281>
Heavy metals	10 ppm Max	Conforms	USP<233>
Lead (Pb)	0.5 ppm Max	Conforms	USP<233>
Arsenic (As)	0.5 ppm Max	Conforms	USP<233>
Mercury (Hg)	1 ppm Max	Conforms	USP<233>
Cadmium (Cd)	1 ppm Max	Conforms	USP<233>
Microbiological Control			
Total Plate Count	1000 cfu/g Max	Conforms	USP<61>
Yeast & Mold	100 cfu/g Max	Conforms	USP<61>
E. Coli	Negative	Conforms	USP<62>
Salmonella	Negative	Conforms	USP<62>
Staphylococcus aureus	Negative	Conforms	USP<62>

Additional information	This product is Non-GMO & Non-Irradiation & BES Free.
Conclusion	Qualified with the specification.
Storage	Store in a cool and dry place, in a well-closed container, keep away from strong light and heat.

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